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PLASMA TV

SERVICE MANUAL

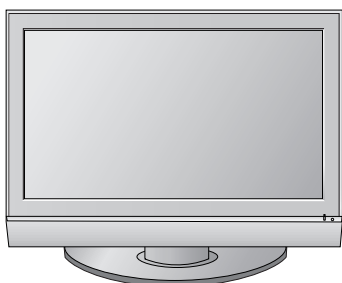
CHASSIS : PD73A

MODEL : 42PC56

42PC56-ZD

CAUTION

BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



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SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by \triangle in the Schematic Diagram and Replacement Parts List. It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards. Do not modify the original design without permission of manufacturer.

General Guidance

An **isolation Transformer should always be used** during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and its components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this monitor is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

Due to high vacuum and large surface area of picture tube, extreme care should be used in **handling the Picture Tube**. Do not lift the Picture tube by its Neck.

Leakage Current Cold Check(Antenna Cold Check)

With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.

If the exposed metallic part has a return path to the chassis, the measured resistance should be between $1M\Omega$ and $5.2M\Omega$.

When the exposed metal has no return path to the chassis the reading must be infinite.

An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

Do not use a line Isolation Transformer during this check.

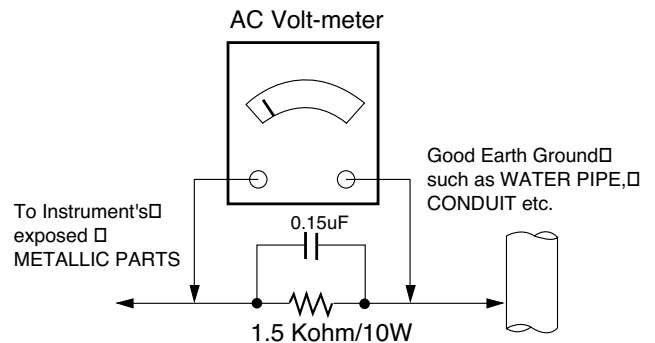
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.

Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which corresponds to 0.5mA.

In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



SPECIFICATIONS

NOTE : Specifications and others are subject to change without notice for improvement.

■ Application Range

This spec is applied to the 42" PLASMA TV used PD73A Chassis.

Chassis	Model Name	Market	Brand	Remark
PD73A	42PC56-ZD	UK, German, Italy, France, Sweden, Finland, Spain	LG	

■ Specification

Each part is tested as below without special appointment.

- 1) Temperature : $25\pm5^{\circ}\text{C}$ ($77\pm9^{\circ}\text{F}$), CST : 40 ± 5
- 2) Relative Humidity: $65\pm10\%$
- 3) Power Voltage: Standard Input voltage (100-240V~, 50/60Hz)
* Standard Voltage of each product is marked by models.
- 4) Specification and performance of each parts are followed each drawing and specification by part number in accordance with SBOM.
- 5) The receiver must be operated for about 20 minutes prior to the adjustment.

■ Test Method

- 1) Performance : LGE TV test method followed.
- 2) Demanded other specification
Safety : CE, IEC specification
EMC : CE, IEC

Model	Market	Appliance	Remark
42PC56-ZD	UK, German, Italy, France, Sweden, Finland, Spain	Safety : IEC/EN60065 EMI : EN55013 EMS : EN55020	TEST

■ General Specification

1. Module Specification (42" XGA MODULE)

No	Item	Specification	Remark
1	Display Screen Device	42" Wide Color Display Module	Plasma Display Panel
2	Aspect Ratio	16:9	
3	PDP Module	PDP42X4, RGB Closed Type, Film Filter	
4	Operating Environment	1)Temp. : $0\sim40^{\circ}\text{deg}$ 2)Humidity : $20\sim80\%$	LGE SPEC.
5	Storage Environment	3)Temp. : $-20\sim60^{\circ}\text{deg}$ 4)Humidity : $10\sim90\%$	
6	Input Voltage	100-240V~, 50/60Hz	Maker LG

2. Model General Specification

No	Item	Specification	Remark
1	Market	UK, German, Italy, France, Sweden, Finland, Spain	
2	Broadcasting system	1) PAL-BG 2) PAL-DK 3) PAL-I,I' 4) DVB-T(ID TV) 5) SECAM-L/L'	
3	Receiving system	Analog : Upper Heterodyne Digital : COFDM	
4	Scart Jack (2EA)	PAL, SECAM	
5	Video Input (1EA)	PAL, SECAM, NTSC	4 System : PAL, SECAM, NTSC, PAL60
6	S-Video Input (1EA)	PAL, SECAM, NTSC	4 System : PAL, SECAM, NTSC, PAL60
7	Component Input (1EA)	Y/Cb/Cr, Y/Pb/Pr	
8	RGB Input(1EA)	RGB-PC	
9	HDMI Input(2EA)	HDMI-DTV & SOUND	
10	Audio Input (3EA)	PC Audio, Component, AV	L/R Input

ADJUSTMENT INSTRUCTIONS

1. Application Object

These instructions are applied to all of the 42" PLASMA TV, PD73A Chassis.

2. Note

- (1) Because this is not a hot chassis, it is not necessary to use an isolation transformer. However, the use of isolation transformer will help protect test instrument.
- (2) Adjustment must be done in the correct order.
- (3) The adjustment must be performed in the circumstance of $25 \pm 5^\circ\text{C}$ of temperature and $65 \pm 10\%$ of relative humidity if there is no specific designation.
- (4) The input voltage of the receiver must keep 100-240V~, 50/60Hz.
- (5) The receiver must be operated for about 15 minutes prior to the adjustment.

- After RGB Full white HEAT-RUN Mode, the receiver must be operated prior to adjustment.
- Enter into HEAT-RUN MODE
 - 1) Press the POWER ON KEY on R/C for adjustment.
 - 2) OSD display and screen display PATTERN MODE.
- * Set is activated HEAT-RUN without signal generator in this mode.
- * Single color pattern(RED/BLUE/GREEN) of HEAT-RUN mode uses to check PANEL.

If you turn on a still screen more than 20 minutes (Especially Digital pattern, Cross Hatch Pattern), an afterimage may occur in the black level part of the screen.

3. Channel memory Setting Method

: You can set channel memory by R/C for adjustment.

- 1) Press ADJ key on R/C for adjustment.
- 2) Press ENTER key on "System Control3".
- 3) Press VOL + key on "Channel Recover".

4. PCMCIA CARD Checking Method

: You must adjust DTV 29 Channel and insert PCMCIA CARD to socket.

- 1) If PCMCIA CARD works normally, normal signals display on screen. But it works abnormally, "No CA module" words display on screen.

Each PCB assembly must be checked by check JIG set.
(Because power PCB Assembly damages to PDP Module, especially be careful)

5. POWER PCB Assy Voltage Adjustments (Va, Vs Voltage adjustments)

5-1. Test Equipment : D.M.M. 1EA

5-2. Connection Diagram for Measuring : refer to Fig.1

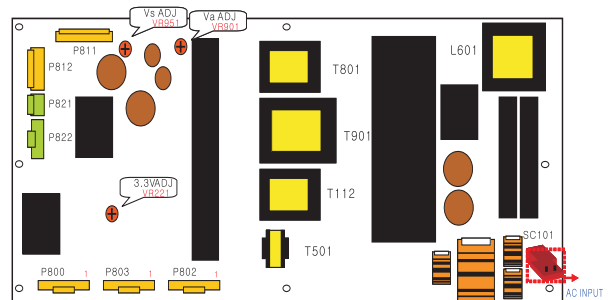
5-3. Adjustment Method

(1) Va Adjustment

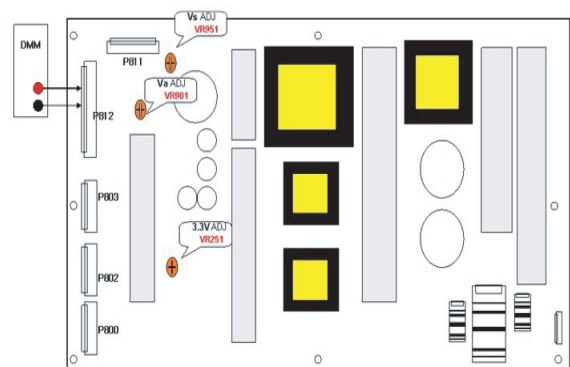
- 1) After receiving 100% Full White Pattern, HEAT RUN.
- 2) Connect + terminal of D.M.M to Va pin of P812, connect - terminal to GND pin of P812.
- 3) After turning VR901, voltage of D.M.M adjustment as same as Va voltage which on label of panel right/top. (Deviation; $\pm 0.5\text{V}$)

(2) Vs Adjustment

- 1) Connect + terminal of D.M.M to Vs pin of P812, connect - terminal to GND pin of P812.
- 2) After turning VR951, voltage of D.M.M adjustment as same as Vs voltage which on label of panel right/top. (Deviation; $\pm 0.5\text{V}$)



<42" 6709900019A>



<42" EAY32808901>

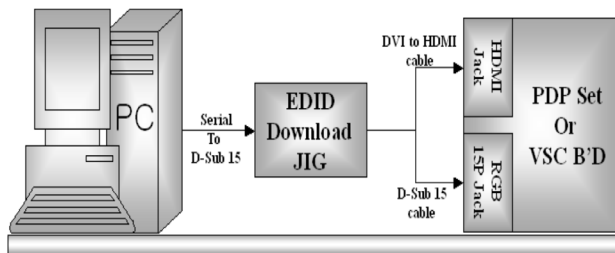
(Fig. 1) Connection diagram of power adjustment for measuring

6. EDID (The Extended Display Identification Data)/ DDC (Display Data Channel) download

6-1. Required Test Equipment

- 1) Adjusting PC with S/W for writing EDID Data.(S/W : EDID TESTER Ver.2.5)
- 2) A Jig for EDID Download
- 3) Cable : Serial(9Pin or USB) to D-sub 15Pin cable, D-sub 15Pin cable, DVI to HDMI cable

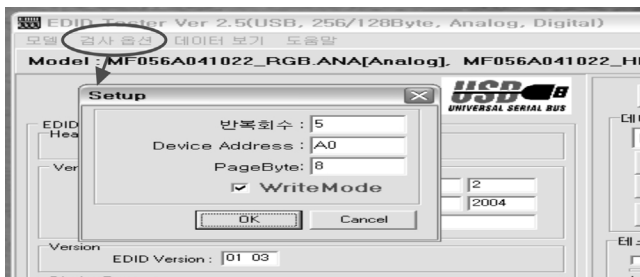
6-2. Setting of device



(Fig. 2) Connection Diagram of DDC download

6-3. Preparation for Adjustment

- 1) As above Fig. 2, Connect the Set, EDID Download Jig, PC & Cable.
- 2) Turn on the PC & EDID Download Jig. And Execute the S/W : EDID TESTER Ver,2.5.
- 3) Set up S/W option.
Repeat Number : 5
Device Address : A0
PageByte : 8
- 4) Power on the Set.



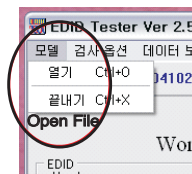
6-4. Sequence of Adjustment

- EDID Download

- 1) Init the data.



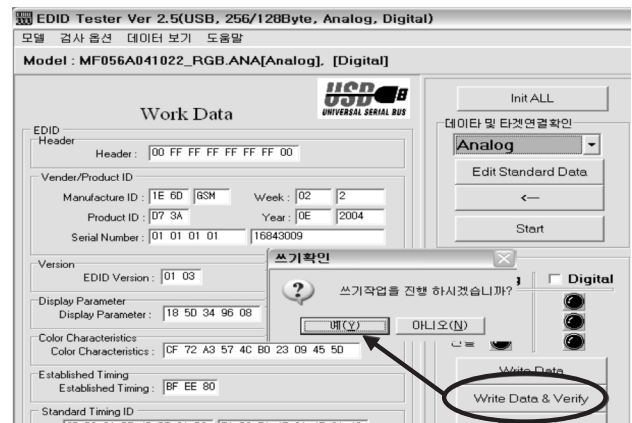
- 2) Load the EDID data.(Open File).



[Analog file] (for RGB)

[Digital file] (for HDMI)

- 3) Set the S/W as below.
- 4) Push the "Write Data & Verify" button. And confirm "Yes".
- 5) If the writing is finished, you will see the "OK" message.
- 6) If TV has two HDMI, you must download two times for each HDMI.



- EDID DATA

1) Analog RGB.

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	1			2		
10		3	01	03	01	46	27	78	EA	D9	B0	A3	57	49	9C	25
20	11	49	4B	A5	6E	00	31	40	45	40	61	40	D1	C0	01	01
30	01	01	01	01	01	01	1B	21	50	A0	51	00	1E	30	48	88
40	35	00	BC	86	21	00	00	1C	26	36	80	A0	70	38	1F	40
50	50	20	85	04	BC	86	21	00	00	18						
60						4							00	00	00	FD
70	00	3C	4B	1D	43	0E	00	0A	20	20	20	20	20	20	00	5

=> Detail EDID Options are below([1], [2], [3],[4], [5])

1. [1]-Product ID

Model Name	Product ID	Product ID	
		Hex	EDID table
42PC55-ZB	40013	9CB1	B19C
42PC56-ZD	40015	9CB3	B39C
50PC55-ZB	50015	C35F	5FC3
50PC56-ZD	50017	C361	61C3
50PB56-ZA	50019	C363	63C3

2. [2]-Serial No : Controlled on production line

3. [3]-Month, Year : Controlled on production line

ex) Week : '03' => '03'

Year : '2006' => '10'

4. [4]-Model Name(Hex):

Model Name	Hex Data
42PC55-ZB	00 00 00 FC 00 34 32 50 43 35 35 2D 5A 42 0A 20 20 20
42PC56-ZD	00 00 00 FC 00 34 32 50 43 35 36 2D 5A 44 0A 20 20 20
50PC55-ZB	00 00 00 FC 00 35 30 50 43 35 35 2D 5A 42 0A 20 20 20
50PC56-ZD	00 00 00 FC 00 35 30 50 43 35 36 2D 5A 44 0A 20 20 20
50PB56-ZA	00 00 00 FC 00 35 30 50 42 36 35 2D 5A 41 0A 20 20 20

5. [5]-Checksum : Changeable by total EDID data

2) HDMI1.

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	1			2		
10		3	01	03	80	46	27	78	EA	D9	B0	A3	57	49	9C	25
20	11	49	4B	A5	6E	00	31	40	45	40	61	40	D1	C0	01	01
30	01	01	01	01	01	01	02	3A	80	18	71	38	2D	40	58	2C
40	45	00	C4	8E	21	00	00	1E	1B	21	50	A0	51	00	1E	30
50	48	88	35	00	BC	86	21	00	00	1C						
60						4							00	00	00	FD
70	00	32	4B	1C	43	0F	00	0A	20	20	20	20	20	20	01	5

=> Detail EDID Options are below([1], [2], [3],[4], [5])

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
00	02	03	21	F1	4E	02	11	01	03	12	13	04	14	05	21	1F
10	20	22	10	23	09	07	07	83	01	00	00	65	03	0C	00	10
20	00	01	1D	00	BC	52	D0	1E	20	B8	28	55	40	C4	8E	21
30	00	00	1E	01	1D	00	72	51	D0	1E	20	6E	28	55	00	C4
40	8E	21	00	00	1E	01	1D	80	D0	72	1C	16	20	10	2C	25
50	80	C4	8E	21	00	00	9E	8C	0A	D0	90	20	40	31	20	0C
60	40	55	00	C4	8E	21	00	00	18	4E	1F	00	80	51	00	1E
70	30	40	80	37	00	BC	88	21	00	00	18	00	00	00	00	5

=> Detail EDID Options are below([1], [2], [3],[4], [5])

1. [1]-Product ID

Model Name	Product ID	Product ID	
		Hex	EDID table
42PC55-ZB	40114	9CB2	B29C
42PC56-ZD	40116	9CB4	B49C
50PC55-ZB	50016	C360	60C3
50PC56-ZD	50018	C362	62C3
50PB56-ZA	50020	C364	64C3

2. [2]-Serial No : Controlled on production line

3. [3]-Month, Year : Controlled on production line

ex) Week : '03' => '03'

Year : '2006' => '10'

4. [4]-Model Name(Hex):

Model Name	Hex Data
42PC55-ZB	00 00 00 FC 00 34 32 50 43 35 35 2D 5A 42 0A 20 20 20
42PC56-ZD	00 00 00 FC 00 34 32 50 43 35 36 2D 5A 44 0A 20 20 20
50PC55-ZB	00 00 00 FC 00 35 30 50 43 35 35 2D 5A 42 0A 20 20 20
50PC56-ZD	00 00 00 FC 00 35 30 50 43 35 36 2D 5A 44 0A 20 20 20
50PB56-ZA	00 00 00 FC 00 35 30 50 42 36 35 2D 5A 41 0A 20 20 20

5. [5]-Checksum : Changeable by total EDID data

3) HDMI2.

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	1			2		
10		3	01	03	80	46	27	78	EA	D9	B0	A3	57	49	9C	25
20	11	49	4B	A5	6E	00	31	40	45	40	61	40	D1	C0	01	01
30	01	01	01	01	01	01	02	3A	80	18	71	38	2D	40	58	2C
40	45	00	C4	8E	21	00	00	1E	1B	21	50	A0	51	00	1E	30
50	48	88	35	00	BC	86	21	00	00	1C						
60						4							00	00	00	FD
70	00	32	4B	1C	43	0F	00	0A	20	20	20	20	20	20	01	5

=> Detail EDID Options are below([1], [2], [3],[4], [5])

* Please refer HDMI1

7. ADC Calibration

ADC	RF/AV/S-VIDEO	Component	RGB-PC
MSPG925FS	PAL	Model:215(720P) Pattern : 65 * 720/50Hz 7 Color Bar	Model : 3
	INPUT SELECT AV3		(1024*768 60Hz)
	Model : 202 (PAL-BGDHI)		Pattern : 65
	Pattern : 65 * PAL 7 Color Bar		7 Color Bar

- System control RS-232 Host should be "PC" for adjustment.
- Before AV ADC Calibration, execute the "Panel size selection"

8. Auto AV(CVBS) Color Balance

8-1. Requirement

- This AV color balance adjustment should be performed before white Balance Adjustment.

8-2. Required Equipment

- 1) Remote controller for adjustment.
- 2) MSPG-925FS Pattern Generator (Which has Video Signal: 7 Color Bar Pattern shown in Fig. 3).
- Model: 202 / Pattern: 65 EC and FC model use PAL-BGDHI. (composite signal)

8-3. Method of Auto AV(CVBS) Color Balance

- 1) Input the Video signal: 7 color Bar signal into AV3.
- 2) Set the PSM to Dynamic mode in the Picture menu.
- 3) Press IN-STAR key on R/C for adjustment.
- 4) Press the ►(Vol. +) key operate to set, then it becomes automatically.
- 5) Auto-RGB OK means completed adjustment.



(Fig. 3) Color Balance signal

9. Adjustment of Component

9-1. Requirement

- This AV color balance adjustment should be performed before white Balance Adjustment.

9-2. Required Equipment

- 1) Remote controller for adjustment.
- 2) MSPG-925FS Pattern Generator (Which has Video Signal: 7 Color Bar Pattern shown in Fig. 4).
- Model: 215 / Pattern: 65

9-3. Method of Auto Component Color Balance

- 1) Input the Component 720p/50Hz 7 Color Bar(MSPG-925FS model:215, pattern:65) signal into Component.
- 2) Set the PSM to Dynamic mode in the Picture menu.
- 3) Press IN-STAR key on R/C for adjustment.
- 4) Press the ►(Vol. +) key operate to set, then it becomes automatically.
- 5) Auto-RGB OK means completed adjustment.



(Fig. 4) Color bar Test Pattern

10. Adjustment of RGB

10-1. Requirement

- This AV color balance adjustment should be performed before white Balance Adjustment.

10-2. Required Equipment

- 1) Remote controller for adjustment.
- 2) MSPG-925FS Pattern Generator (Which has Video Signal: 7 Color Bar Pattern shown in Fig. 5).
- Model: 215 / Pattern: 65

10-3. Method of Auto RGB Color Balance

- 1) Input the PC 1024x768 @ 60Hz 7 color bar (MSPG-925FS, Model:3, Pattern: 65) into RGB. (using D-sub to D-sub cable)
- 2) Set the PSM to Dynamic mode in the Picture menu.
- 3) Press IN-STAR key on R/C for adjustment.
- 4) Press the ►(Vol. +) key operate to set, then it becomes automatically.
- 5) Auto-RGB OK means completed adjustment.



(Fig. 5) Color bar Test Pattern

11. Adjustment of White Balance

11-1. Requirement

- Before adjusting White-balance, the AV ADC should be done.

11-2. Required Equipment

- Remote controller for adjustment.
- Color Analyzer.(CA-1000,CA-100+,CA-200 or same product) : CH10(PDP)
- * Please adjust CA-210, CA-100+ by CS-1000 before measuring.**
- Auto W/B adjustment instrument.(only for Auto adjustment)
- AV Pattern Generator.

- ◆ Synchronization relation between PSM and CSM.

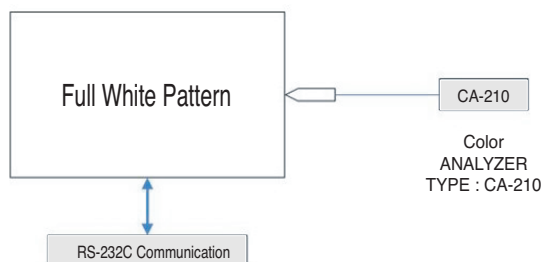
CSM	PLASMA	Remark
Cool	11000K	
Normal	9300K	
Warm	6500K	

- ◆ CS-1000/CA-100+/CA-210 White balance adjustment coordinate and color temperature.

Mode	Color Coordinate		Temp	Δuv
	x	y		
COOL	0.276±0.002	0.283±0.002	11000K	0.000
MEDIUM	0.285±0.002	0.293±0.002	9300K	0.000
WARM	0.313±0.002	0.329±0.002	6500K	0.003

11-3. Connection Picture of the Measuring Instrument(On Automatic control)

- Inside PATTERN is used when W/B is controlled. Connect to auto controller or push control R/C IN-START -> Enter the mode of White-Balance, the pattern will come out.



(Fig. 6) Auto AV(CVBS) Color Balance Test Pattern

- Auto-control interface and directions

- Adjust in the place where the influx of light like floodlight around is blocked.(illumination is less than 10ux)
- Measure and adjust after sticking the Color Analyzer(CA-100+, CA210) to the side of the module.
- Aging time : keep white pattern using inside pattern.

- ◆ Auto adjustment Map(RS-232C)

Type		PD73A				
Baud Rate		Data bit		Stop bit	Parity	
115200		8		1	NONE	
Protocol Setting	Index	Cmd1	Cmd2	Data	Min Value	Max Value
	R Gain	j	a		00(00)	128(80)
	G Gain	j	b		00(00)	128(80)
	B Gain	j	c		00(00)	128(80)
	R Offset	j	d		00(00)	128(80)
	G Offset	j	e		00(00)	128(80)
	B Offset	j	f		00(00)	128(80)

12. Adjustment of White Balance

(Manual white Balance)

- One of R Gain/ G Gain/ B Gain should be kept on 80, and others are controlled lowering from 80
- (1) 'power on' of the control R/C, set heat run to white by pressing and heat run over 15 minutes. (Set: RS-232 Host: PC, Baud Rate: 115200bps, Download: Cortez)
- (2) Zero Calibrate CA-100+, and stick the sensor to the center of PDP module surface when you adjust.
- (3) Double click In-start key on Controlling R/C and get in 'white balance'.
- (4) Set test-pattern on and display inside pattern. Control is carried out on three color temperature, COOL, MEDIUM, WARM. (Control is carried out three times.)
- (5) When the R/G/B GAIN is 80 on OSD, it is the FULL DYNAMIC Range of the Module. In order to control white balance without the saturation of FULL DYNAMIC Range and DATA, one of R Gain / G Gain / B Gain should be kept on 80, and other two is controlled lowering from 80.

- * Color Temperature: Cool, Medium, Warm

- When R GAIN is set to 80
 - Control G GAIN and B GAIN by lowering from 80.
 - When B GAIN is set to 80
 - Control R GAIN and G GAIN by lowering from 80.
 - When G GAIN is set to 80
 - Control R GAIN and B GAIN by lowering from 80.
- One of R Gain / G Gain / B Gain should be kept on 80, and adjust other two lower than 80.
(When R/G/B GAIN are all 80, it is the FULL DYNAMIC Range of Module)

13. Default Value in Adjustment mode

13-1. Auto Color Balance

<Component>			<RGB>		
Auto Color Balance (Hex)			Auto Color Balance (Hex)		
Auto-RGB ▶ To Set			Auto-RGB ▶ To Set		
Source		MAIN	Source		MAIN
Red	Offset1	022	Red	Offset1	0F8
Green	Offset1	024	Green	Offset1	0DA
Blue	Offset1	023	Blue	Offset1	0BC
Red	Offset2	45	Red	Offset2	01
Green	Offset2	43	Green	Offset2	01
Blue	Offset2	37	Blue	Offset2	01
Red	Gain	014	Red	Gain	1FE
Green	Gain	031	Green	Gain	1FE
Blue	Gain	011	Blue	Gain	1FE
Reset	▶ To Set		Reset	▶ To Set	

<AV>		
AutoColorBalance(Hex)		
Auto-RGB ▶ To Set		
Source		MAIN
Red	Offset1	022
Green	Offset1	024
Blue	Offset1	023
Red	Offset2	45
Green	Offset2	43
Blue	Offset2	37
Red	Gain	014
Re Set	▶ To Set	

(Fig. 7) Default on OSD

13-2. Write Balance

White Balance (Hex)		
Red	Gain	80
Green	Gain	80
Blue	Gain	80
Red	Offset	80
Green	Offset	80
Blue	Offset	80
Reset	▶ To Set	

(Fig. 8) Default on OSD

14. EEPROM Data Write(Serial No D/L)

14-1. Signal TABLE

CMD	LENGTH	ADH	ADL	DATA_1	...	DATA_n	CS	DELAY
-----	--------	-----	-----	--------	-----	--------	----	-------

CMD : A0h
 LENGTH : 85~94h (1~16 bytes)
 ADH : E²PROM Sub Address high (00~1F)
 ADL : E²PROM Sub Address low (00~FF)
 Data : Write data
 CS : CMD + LENGTH + ADH + ADL + Data_1 + ... + Data_n
 Delay : 20ms

14-2. Command Set

No	Adjust mode	CMD(hex)	LENGTH(hex)	Description
1	EEPROM WRITE	A0h	84h+n	n-byted Write (n=1~16)

* Description

FOS Default write : <7mode data> write

Vtotal, V_Frequency, Sync_Polarity, Htotal, Hstart, Vstart, 0, Phase

Data write : Model Name and Serial Number write in EEPROM,.

14-3. Method & Notice

- (1) Serial number D/L is using of scan equipment.
- (2) Setting of scan equipment operated by Manufacturing Technology Group.
- (3) Serial number D/L must be conformed when it is produced in production line, because serial number D/L is mandatory by D-book 4.0.

15. Set Information(Serial No& Model name)

15-1. Setting up like bottom figure

(After setting white balance, this is set)

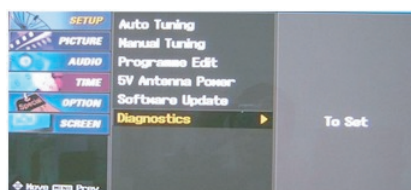
(Setting: Press ADJ Key in the Adjust remoon)

- (1) Select "System Control 2" by using ▲ / ▼ (CH+/-) key, and press ■ (ENTER) Using Adjust remoon, RS-232 Host & Baud Rate & Download value change)

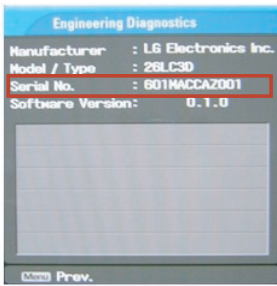
Model Name	Tool Option1	Tool Option2	Area Option	Option1	Option2	Option3	Option3
42PC56-ZD	2048	1697	0	14	2	1	192
50PC56-ZD	2052	1953	0	14	2	1	192

15-2. Push the menu button in DTV mode.

- (1) Select the STATION-> Diagno stics -> To set.

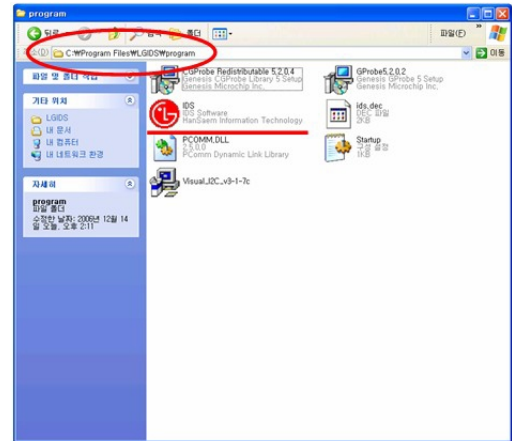


(2) Check the Serial Number.



3) Install LGIDS-2

1. You can find the ICON on C:\Program Files\LGIDS.



16. Input the Shipping Option Data

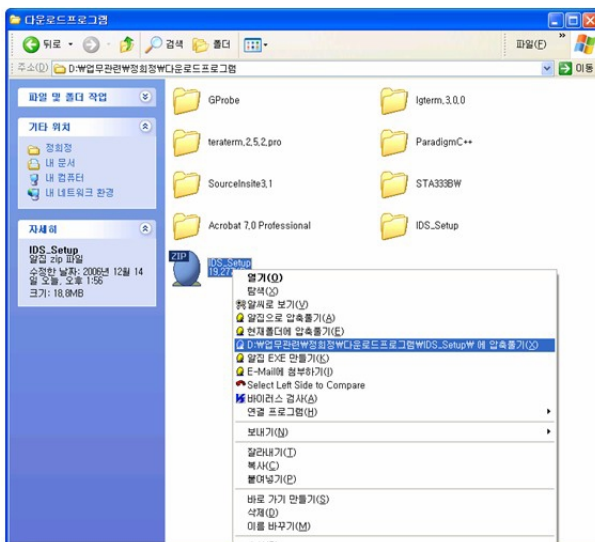
- 1) Push the IN-START key in a Adjust Remocon.
- 2) Input the Option Number that was specified in the BOM, into the Shipping area.
- 3) The work is finished, Push ■ Key.

17. CORTEZ Download

17-1. CORTEZ Download By LGIDS

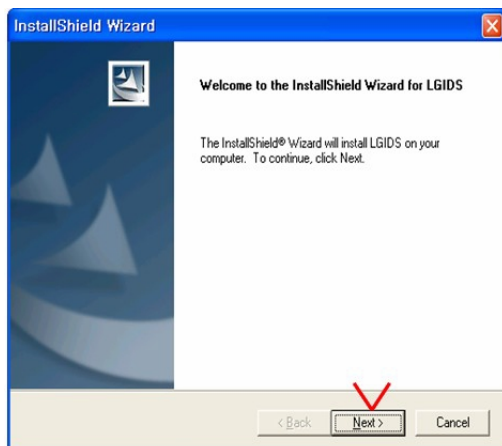
(1) Installation of the LGIDS

1) Extract to folder IDS_Setup.ZIP.



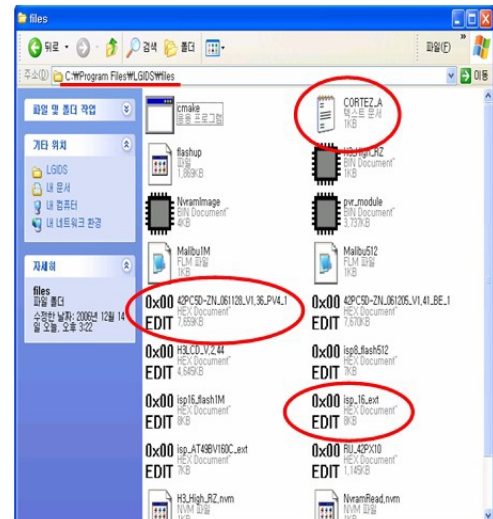
2) Install LGIDS-1

1. After Click the 'NEXT' icon, Installation is finished.

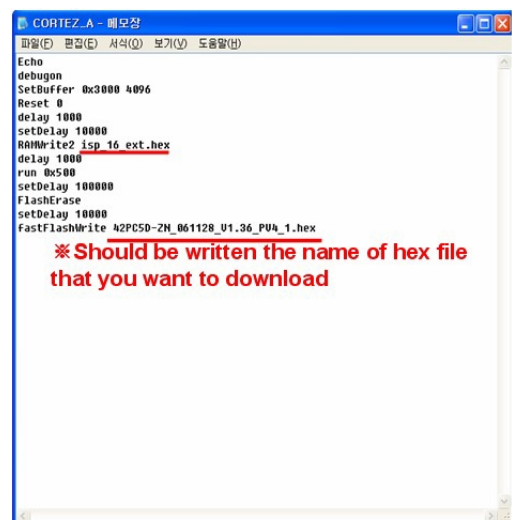


(2) Download hex file

1) Prepare a Batch File(*.txt), RAM File(*.hex) on C:\Program Files\LGIDS\files.



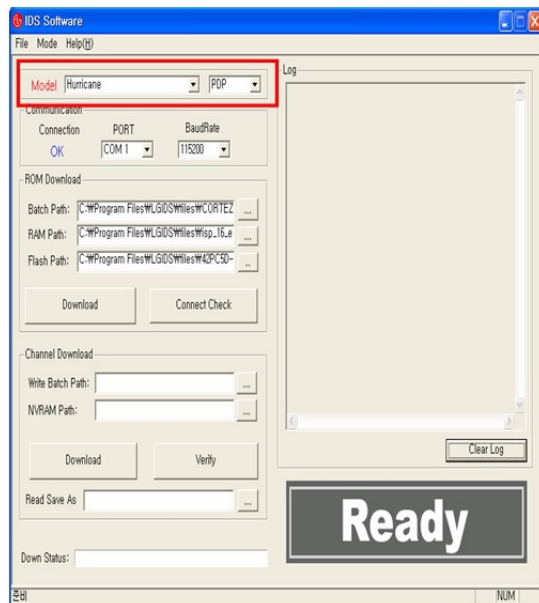
* In the TEXT FILE



2) Connect RS232 cable and turn on the power.
(Use the general RS-232C Serial Cable)

3) Execute the LGIDS Program - 1

1. Check a 'PDP' & 'Hurricane' on the 'Model' MENU



* If your connection is 'NG', then set your PORT(COM1,2,3...) correctly.

4) SVC MENU Setting for CORTEZ DOWNLOAD.

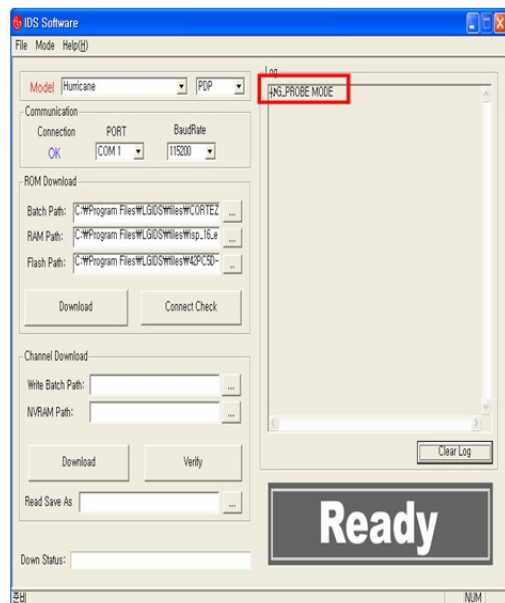
case 1. Press the 'tilt' button on the Adjustment Remote Control.

case 2. Press the 'ADJ' button

- 1) Press the 'System Control 2' menu
- 2) Enter the 'GProbe' on the 'RS-232Host menu'
- 3) Enter '115200bps' on the 'Baud Rate menu'
- 4) Enter the 'Cortez' on the 'Download menu'

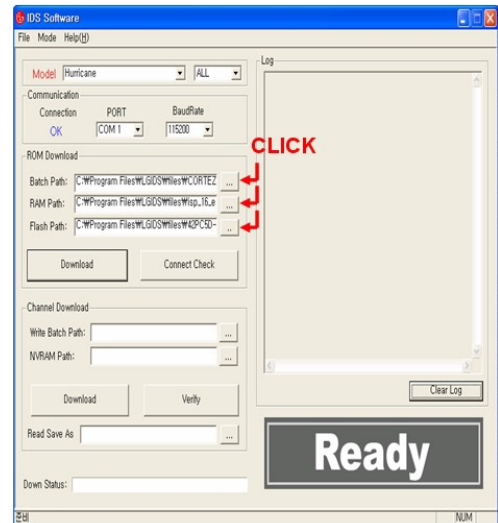
* If you don't have a Adjustment Remote Control
'Menu' button on the Remote Control + 'Menu' button on the Local Key during 7~8sec

After Change a mode, you can see 'GPROBE MODE'

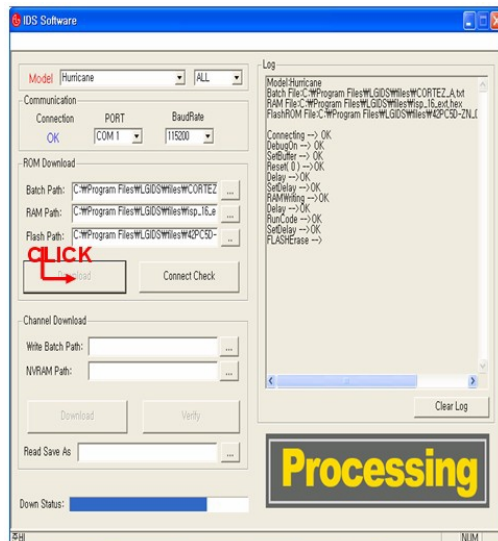


5) Execute the LGIDS Program - 2

1. Open a Batch file, RAM file and Flash file.

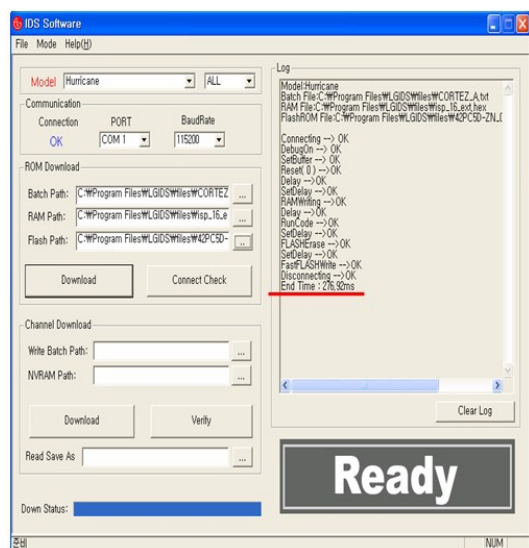


6) Execute the LGIDS Program - 3

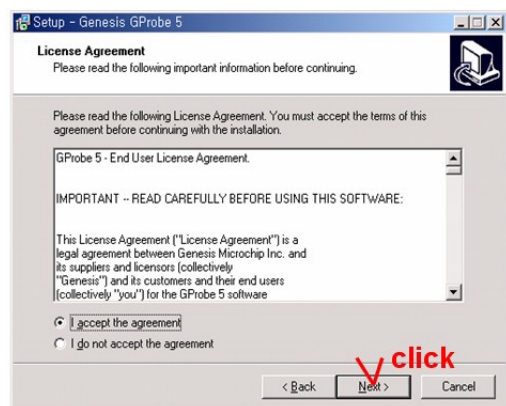


7) Wait the final message.

1. After DOWNLOAD, Turn off the TV after download -> Turn on.



(1) Installation of the GProbe 5



Setup - Genesis GProbe 5

Information

Please read the following important information before continuing.

When you are ready to continue with Setup, click Next.

Genesis GProbe 5 Read Me File

GProbe (c) 2001-2004 by Genesis Microchip Inc.
All rights reserved.

Release history:

GProbe 5.0.0.15

Fixed:

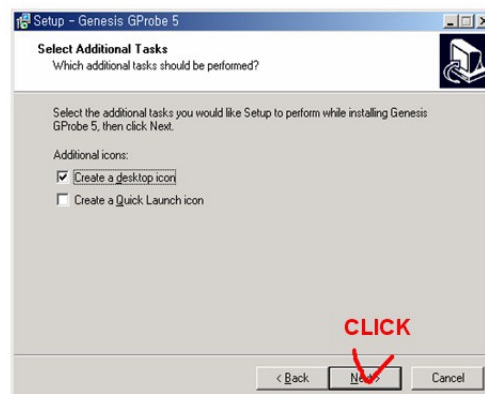
- improved the manual and included numerous examples
- problem with safe array size calculation

GProbe 5.0.0.14

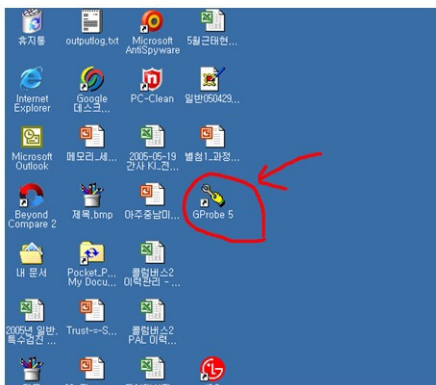
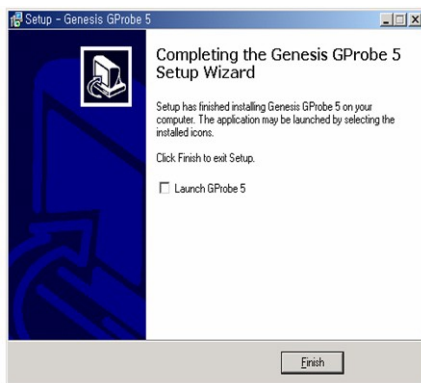
... ..

CLICK

< Back **Next >** Cancel

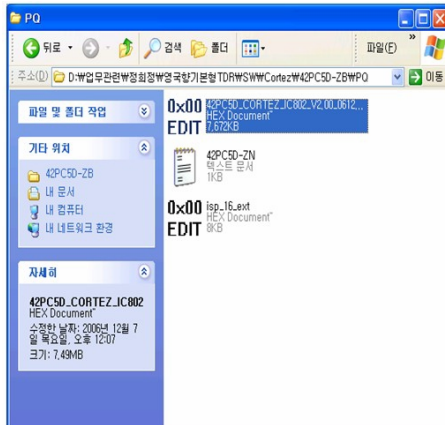


5) Install GProbe5.0.0.15.EXE - 4.

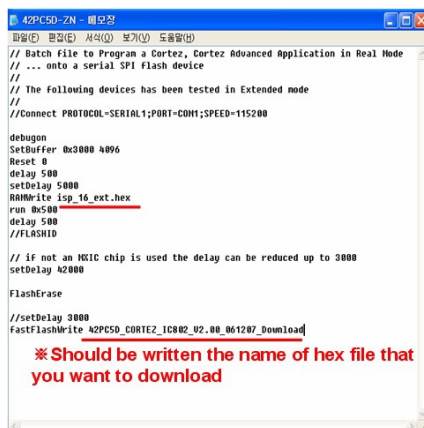


(2) Download hex file using GProbe

- 1) Prepare a '*.hex', 'isp_16_ext.hex', '*.txt' in the same folder.



* In the TEXT FILE

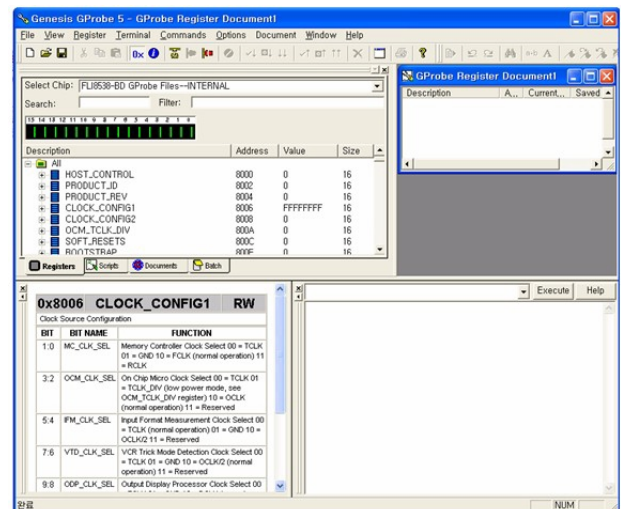


- 2) Connect TV set and PC by using RS232 cable.
- 3) SVC MENU Setting for CORTEZ DOWNLOAD.
 - case 1. Press the 'tilt' button on the Adjustment Remote Control.
 - case 2. Press the 'ADJ' button.

- 1) Press the 'System Control 2' menu
- 2) Enter the 'GProbe' on the 'RS-232Host menu'
- 3) Enter '115200bps' on the 'Baud Rate menu'
- 4) Enter the 'Cortez' on the 'Download menu'

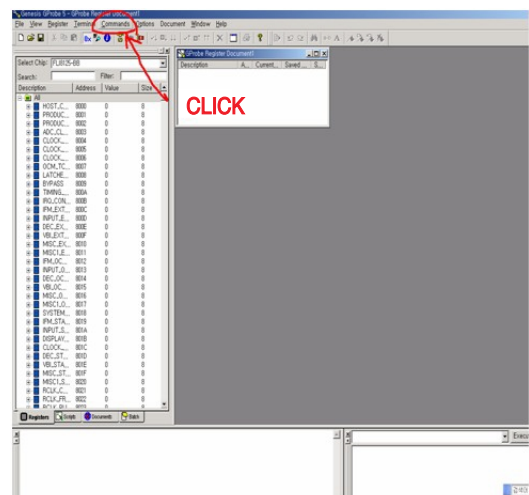
* If you don't have a Adjustment Remote Control 'Menu' button on the Remote Control + 'Menu' button on the Local Key during 7~8sec.

4) Execute the GProbe Program.

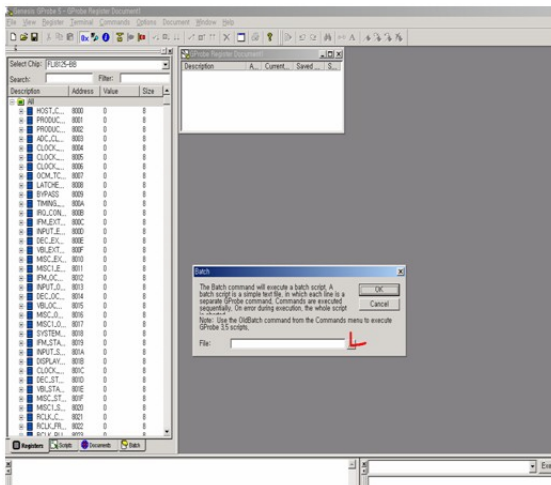


5) Open the batch file - 1.

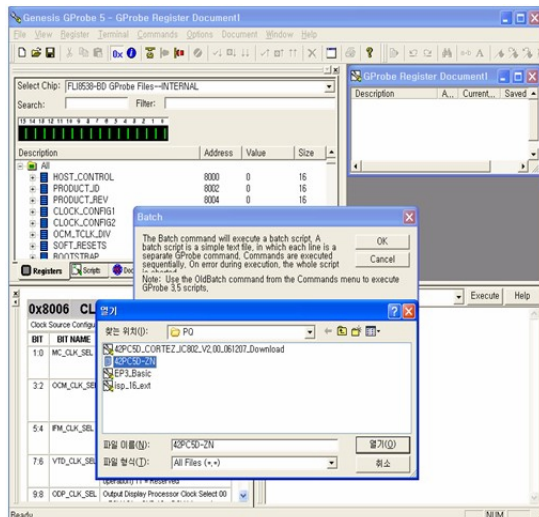
1. Click the 'Commands'.



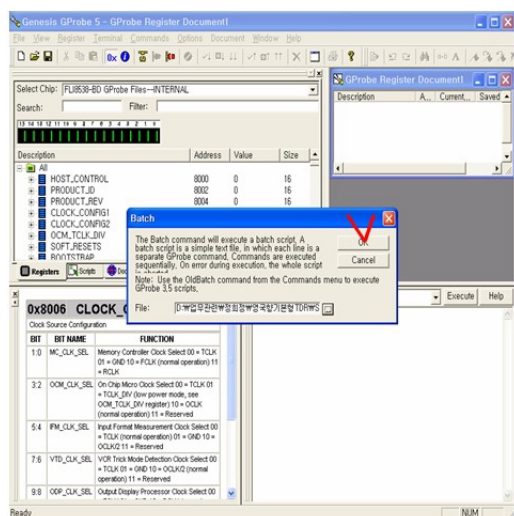
- 6) Open the batch file - 1.
1. Click the 'Commands'.



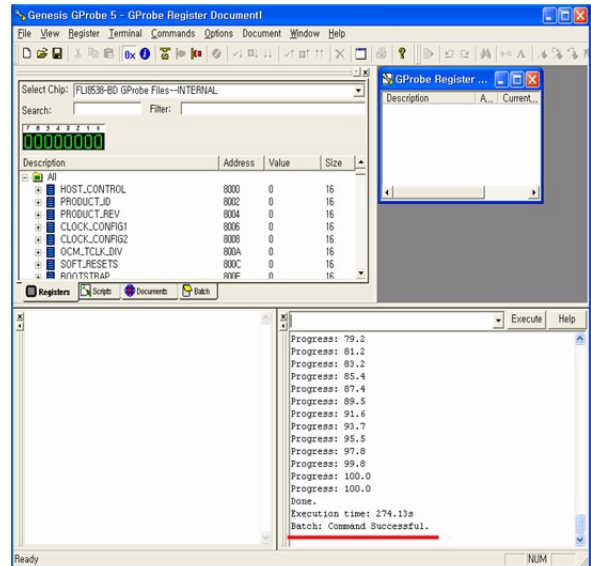
- 7) Open the batch file - 2
1. Click 'Batch' in the 'Commands' menu & express the '...' icon (It's marked by the red check).



- 8) Open the batch file - 3.
1. Choose the text file.



- 9) It takes 300sec ~ 360sec, Wait the final message.
1. Turn off the TV after download -> Turn on.



18. Insert the 'TOOL OPTION' & SERIAL NUMBER

- When you change a Main Ass'y, you should insert the TV SET's original Serial Number & MODEL NAME. It is the way how to insert original number.

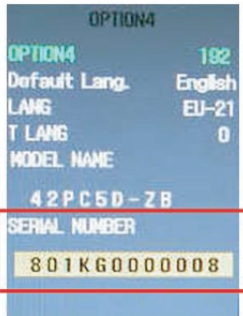
18-1. Insert the 'Tool Option'

- 1) Insert '2048' on 'Tool Option1', '1697' on 'Tool Option2' for 42PC56-ZD Press the 'ENTER' Button.
- 2) Insert '2052' on 'Tool Option1', '1953' on 'Tool Option2' for 50PC56-ZD Press the 'ENTER' Button.
 1. Before change the 'Tool Option', you should check the White Balance Value.
 2. Because change the 'Tool Option', the White Balance Value is reset.

PD73A	
Cortez	2.19
STI 5100	2.01
UIT	31 Hr.
Tool Option1	32768
Tool Option2	129
Area Option	50
OPTION1	14
OPTION2	2
OPTION3	3
OPTION4	192
System Control1	
System Control2	
System Control3	
BlkLine Detector	
Power-off History	
Panel Control	
Fan Control	
XSTUDIO Control	

18-2. Insert the 'SERIAL NUMBER' & 'MODEL NAME'

- 1) Check the original serial number.
(Check the Label on the Back Cover)
 - 2) After change the Main Ass'y, Press the 'ADJ button on the Adjustment Remote control.
 1. Choose the 'OPTION4'
 2. Insert the 'MODEL NAME' by navigation key.
 3. Insert the original serial number on the 'SERIAL NUMBER' MENU by navigation key.
- * After All Setting, Turn Off TV SET-> On

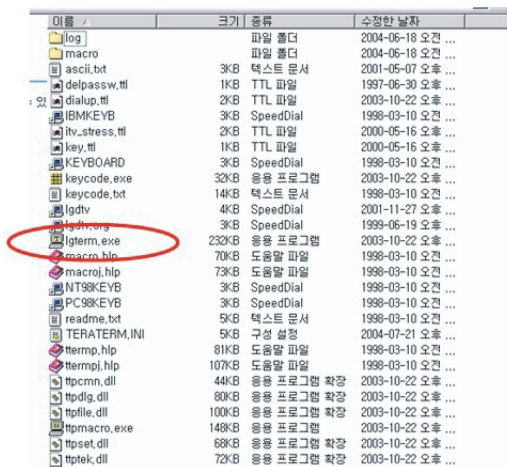


19. ST DOWN LOAD

19-1. ST ROM DOWN LOAD

- (1) Installation the 'LG Term'

- 1) Extract to folder lgterm.zip.

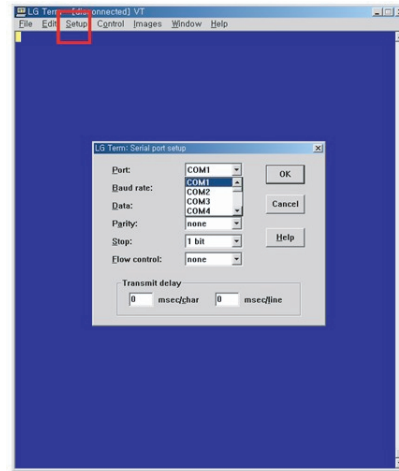


(2) Download biz file using LG Term

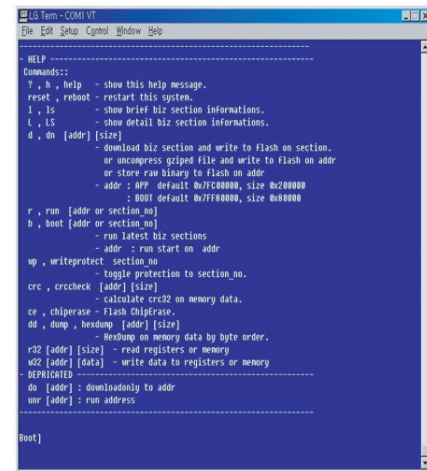
- 1) Prepare the '*.biz' that you want to download on ST.
- 2) Connect TV set and PC by using RS232 cable, Turn on the TV.
- 3) SVC MENU Setting.
 - case 1. Press the 'Turbo Sound' button on the Adjustment Remote Control.
 - case 2. Press the 'ADJ' button.
 - 1) Press the 'System Control 2' menu
 - 2) Enter the 'GProbe' on the 'RS-232 Host'
 - 3) Enter '115200bps' on the 'Baud Rate'
 - 4) Enter the 'STi 5100' on the 'Download'

* If you don't have a Adjustment Remote Control.
'Menu' button on the Remote Control + 'Menu' button on the Local Key during 7~8sec.

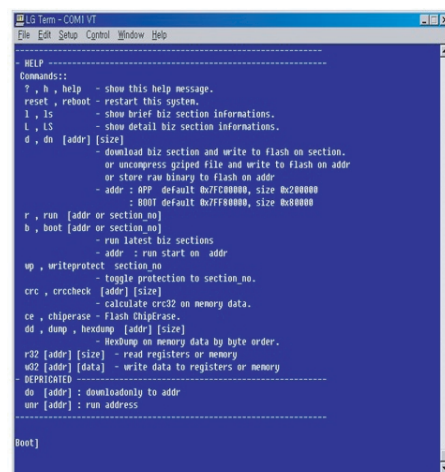
- 4) Execute 'lgterm.exe'.
 1. Select 'Serial port' on 'Setup' Menu.
 2. Port should be connected with the TV SET by RS232.



- 5) TV SET DC Power OFF => ON.
 1. Check the message like the Picture.



- 6) Insert 'dn' and Enter.



7) When 'Please Send the file' appears, Press 'ctrl' + 's'.

```

LG Term - COM1.VT
File Edit Setup Control Window Help

reset, reboot - restart this system.
1, ls - show brief biz section informations.
l, ls - show detail biz section informations.
d, dn [addr] [size]
- download biz section and write to flash on section.
or decompress gzipped file and write to flash on section.
or store raw binary to flash on addr.
- addr : 000 default 0x7FC00000, size 0x200000
- BU0 default 0x7FF00000, size 0x000000

r, run [addr or section.no]
b, boot [addr or section.no]
- run latest biz sections
- addr : run start on addr

wp, writeprotect section.no
- toggle protection to section.no.
- calculate crc32 on memory data.

cc, chiperase [addr] [size]
- calculate crc32 on memory data.
- Flash ChipErase.

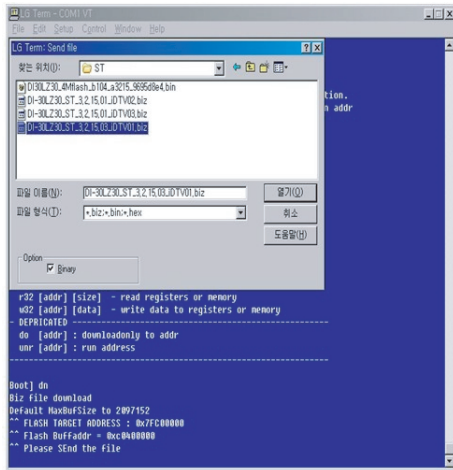
dd, dump, hexdump [addr] [size]
- Hexdump on memory data by byte order.

r32 [addr] [size] - read registers or memory
w32 [addr] [data] - write data to registers or memory
- DEPRECATED

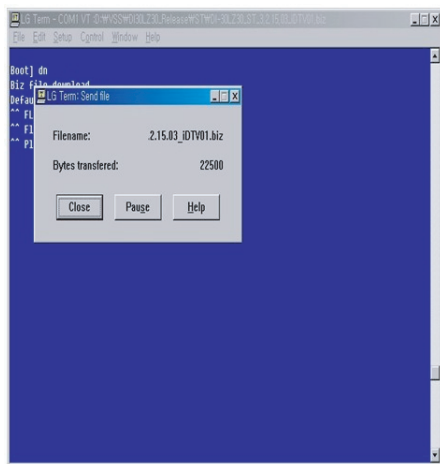
do [addr] : downloadonly to addr
unr [addr] : run address

-----
Boot] dn
Biz file download
Default MaxBufSize to 2007152
** FLASH TARGET ADDRESS : 0x7FC00000
** Flash BufAddr = 0xc0A00000
** Please Send the file
  
```

8) When 'Please Send the file' appears, Press 'ctrl' + 's'.



9) Download takes 60sec ~ 120sec.



10) The End of DOWNLOAD

1. After Download successfully, you can see 'EW EW EW EW'.
2. You can remove RS232 Cable and TV Power SET OFF => ON

```

LG Term - COM1.VT
File Edit Setup Control Window Help

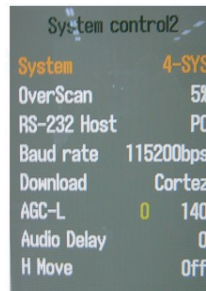
- addr : run start on addr
wp, writeprotect section.no
- toggle protection to section.no.
- calculate crc32 on memory data.
cc, chiperase - Flash ChipErase.
dd, dump, hexdump [addr] [size]
- Hexdump on memory data by byte order.
r32 [addr] [size] - read registers or memory
w32 [addr] [data] - write data to registers or memory
- DEPRECATED

do [addr] : downloadonly to addr
unr [addr] : run address

-----
Boot] dn
Biz file download
Default MaxBufSize to 2007152
** FLASH TARGET ADDRESS : 0x7FC00000
** Flash BufAddr = 0xc0A00000
** Please Send the file
**Total Downloaded Sz = 851991 (0x00017)
CRC : (1x1d157f) : DownloadBuff (c0A01000), len(851991)
biz section format
Flash Write BASEADDR = 7fc00000, codeBuf=c0A01000, dstamp=5, bizCrc=edcd929
codeStartBuf = c0A00300
EW EW EW EW EW EW EW EW EW EW EW EW
Boot]
  
```

11) Change the mode.

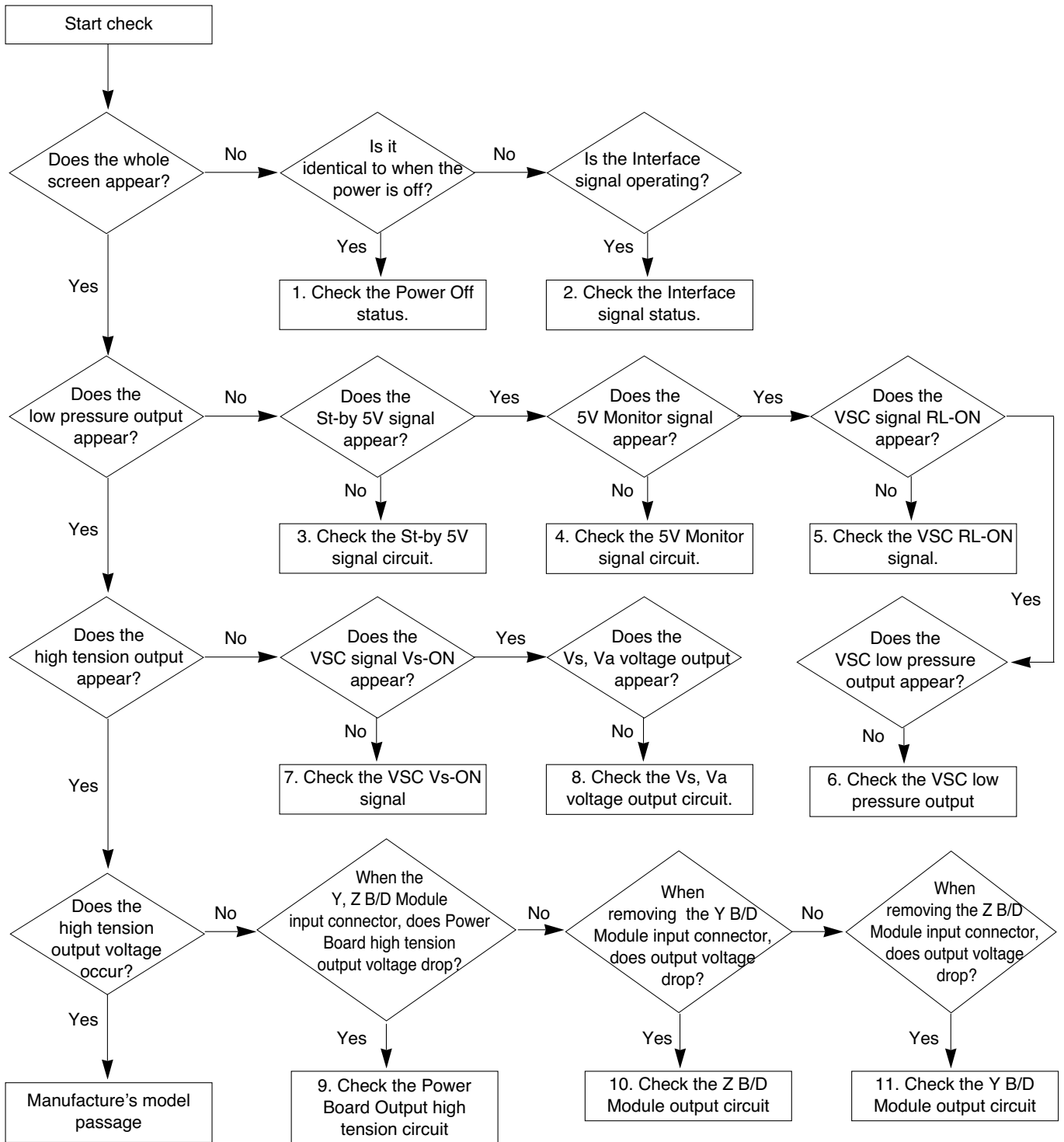
1. Press the 'ADJ' button.
2. Press the 'System Control 2' menu.
3. Enter the 'PC' on the 'RS-232 Host'.
4. Enter '115200bps' on the 'Baud Rate'.
5. Enter the 'Cortez' on the 'Download'.



TROUBLE SHOOTING GUIDE

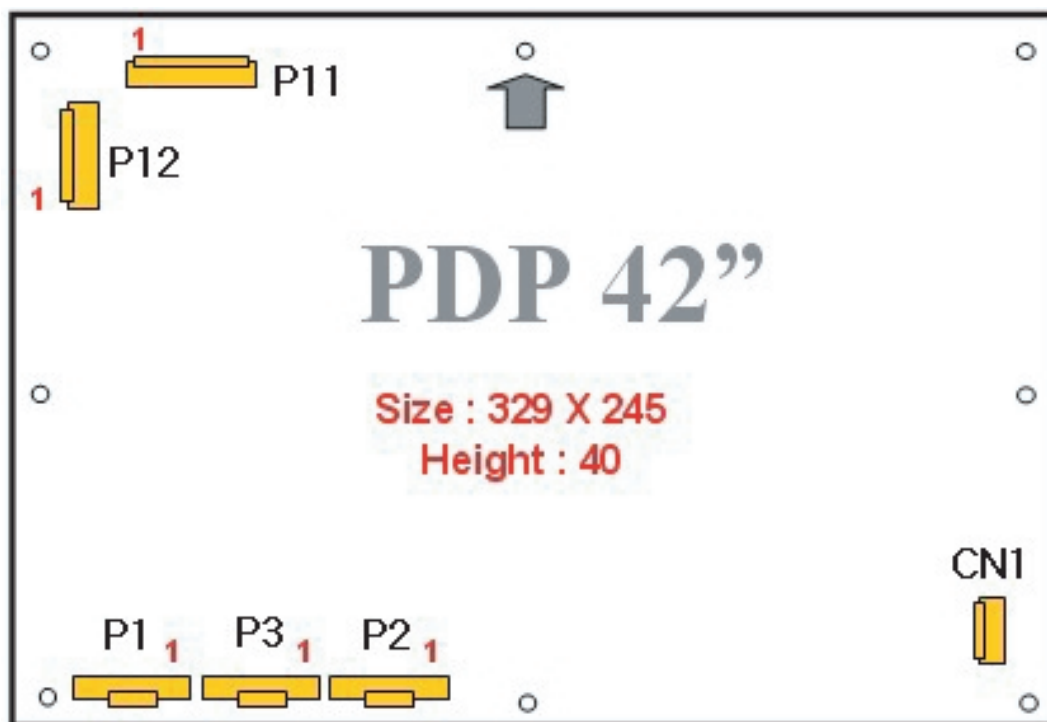
1. Power Board

1-1. The full flowchart for the voltage output



1-2. 42" Power Board Structure(670990001A)

(1) Pin Layout

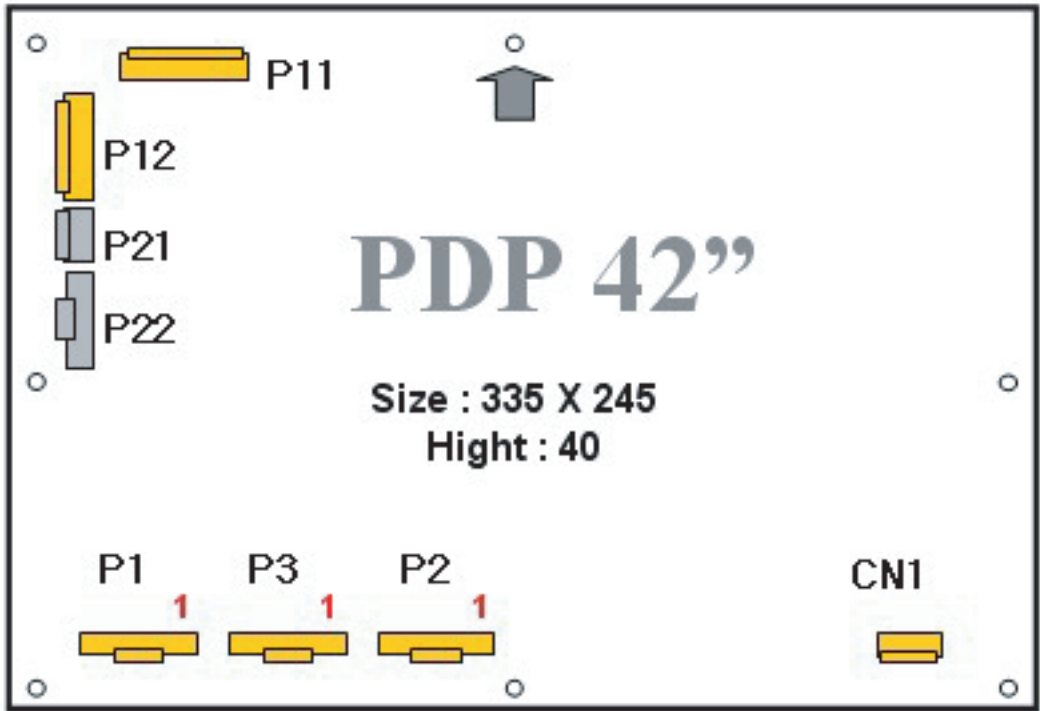


(2) Pin Spec

NO	AC INLET	ANALOG & DIGITAL BOARD			PDP MODULE	
	CN1	P1	P2	P3	P11	P12
1	AC	AC Det	19V	3.4V	Vs	5V
2	NC	RL-ON	19V	3.4V	Vs	GND
3	AC	STBY 5V	GND	GND	NC	Va
4		GND	GND	GND	GND	GND
5		Vs-ON	6V	6V	GND	GND
6		5V Det	GND	6V	Va	GND
7		M5V-ON	3.4V	GND	GND	NC
8		STBY 5V	GND	GND	5V	Vs
9		GND	12V	12V		Vs
10		NC	GND	12V		
11		6V		GND		
12		GND		GND		
13		3.4V-ON				
Wafer P/N	YH396-03V	SMW250-13P	SMW250-10P	SMW250-12P	YH396-08V	YH396-09V

1-3. 42” Power Board Structure(EAY3280890)

(1) Pin Layout



(2) Pin Spec

NO	AC INLET	ANALOG & DIGITAL BOARD			PDP MODULE		READY	
	CN1	P1	P2	P3	P11	P12	P21	P22
1	AC	AC Det	19V	3.4V	Vs	5V	5V	GND
2	NC	RL-ON	19V	3.4V	Vs	GND	5V	GND
3	AC	STB 5V	GND	GND	NC	Va	GND	GND
4		GND	GND	GND	GND	GND	GND	GND
5		Vs-ON	6V	6V	GND	GND		5V
6		5V Det	GND	6V	Va	GND		5V
7		M5V-ON	3.4V	GND	GND	NC		5V
8		STB 5V	GND	GND	5V	Vs		5V
9		GND	12V	12V		Vs		
10		NC	GND	12V				
11		6V		GND				
12		GND		GND				
13		3.4V-ON						
Wafer P/N	SMW250-013P	SMW250-13P	SMW250-10P	SMW250-12P	YH396-08V	YH396-09V	YH396-04V	SMW250-08P

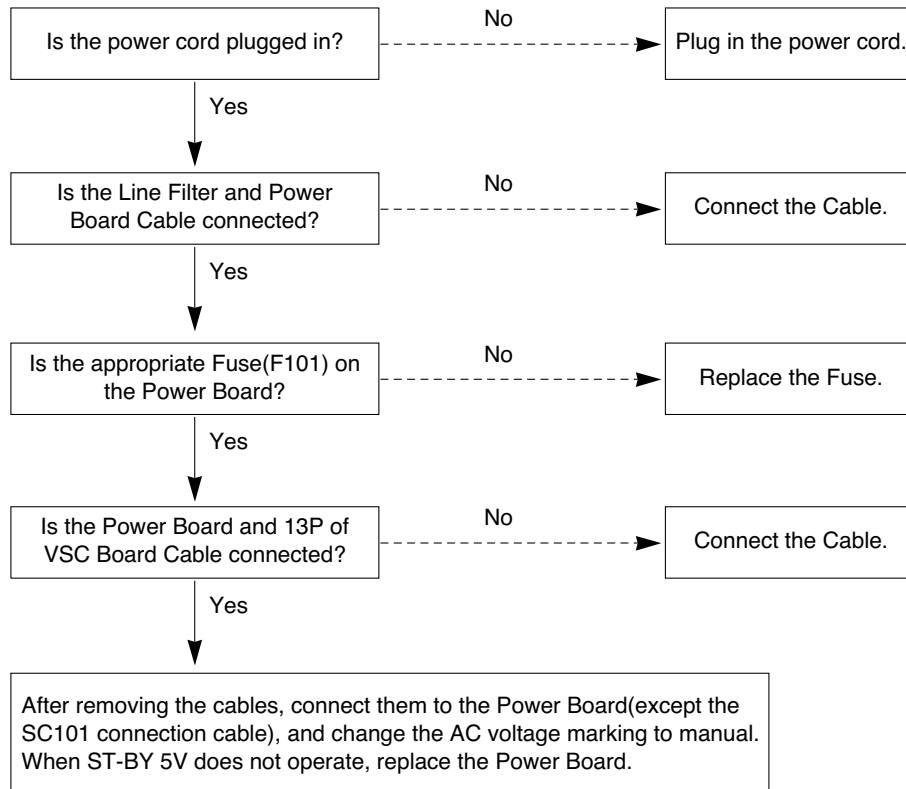
2. No Power

(1) Symptom

- 1) Does not minute discharge at module.
- 2) Non does not come into the front LED.



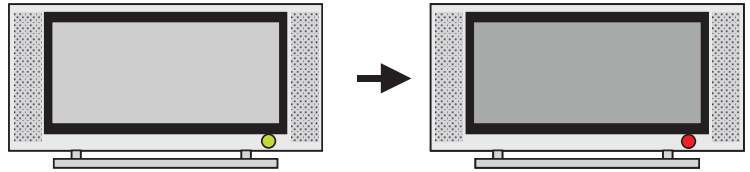
(2) Procedure check



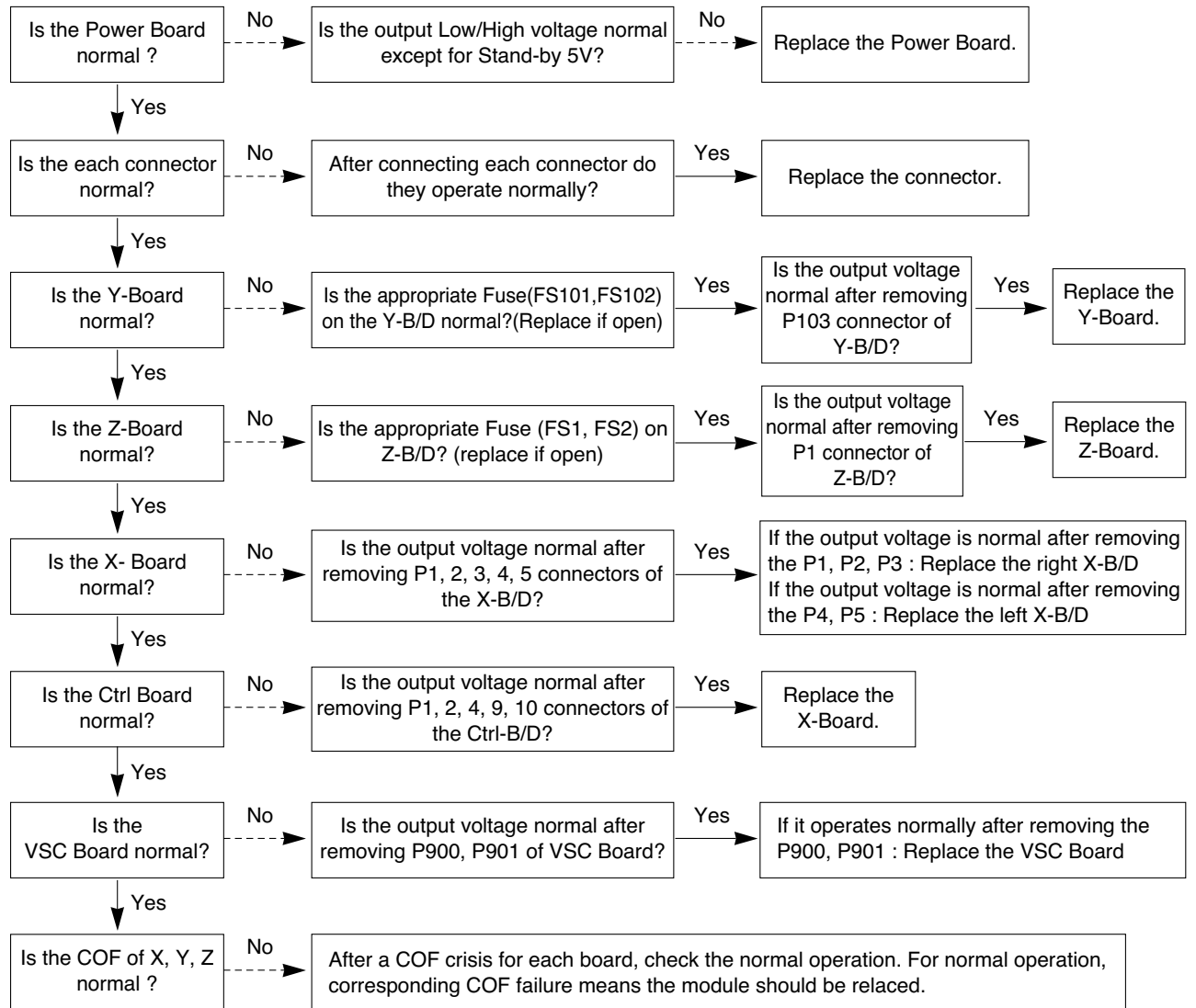
3. Protect Mode

(1) Symptom

- 1) After lighting up once, it does not discharge minutely from module.
- 2) The relay falls.(there is an audible “click”)
- 3) The color of the front LED turns from green to red.



(2) Procedure check



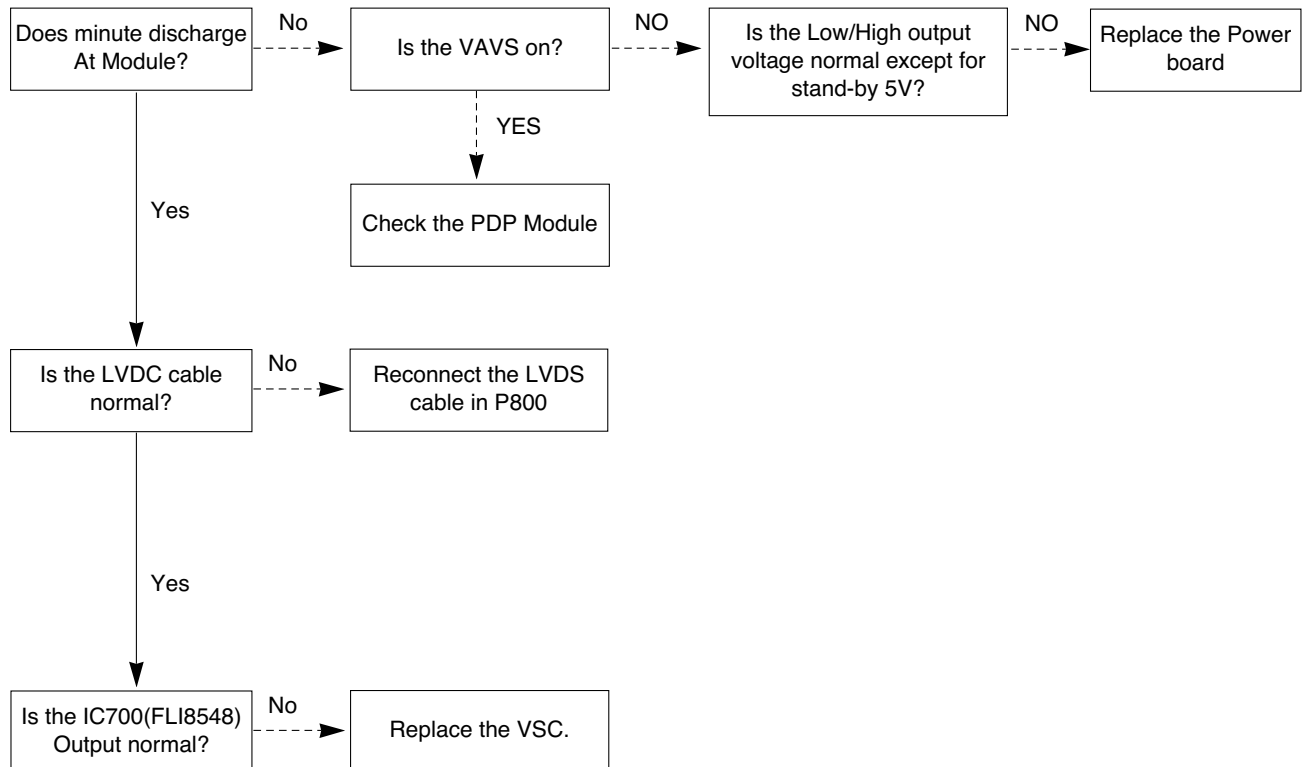
4. No Raster

(1) Symptom

- 1) No OSD and image occur at screen.
- 2) It maintains the condition where the front LED is green.

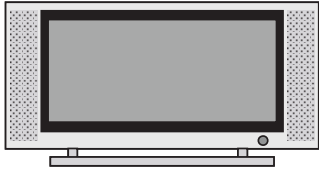


(2) Procedure check



5. In case of strange screen display in specific modes

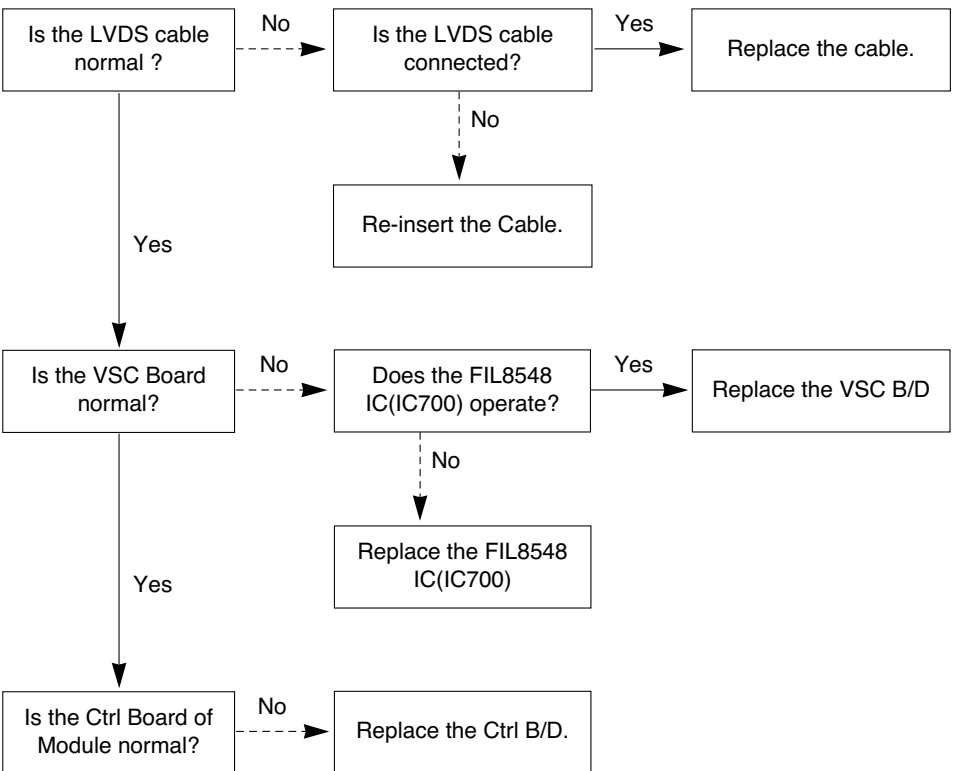
5-1. In case of no OSD display



(1) Symptom

- 1) LED is green.
- 2) The minute discharge is continuously accomplished from the module.

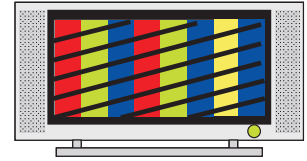
(2) Procedure check



5-2. In case there is no display on the screen in specific modes

(1) Symptom

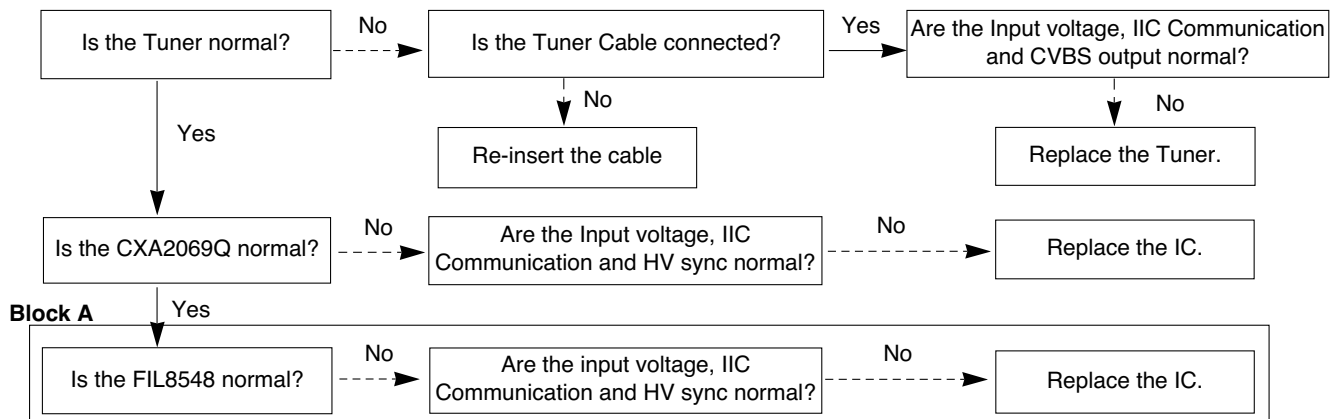
- 1) There is no screen display from a specific input mode (RF, AV, Component, RGB, DVI).



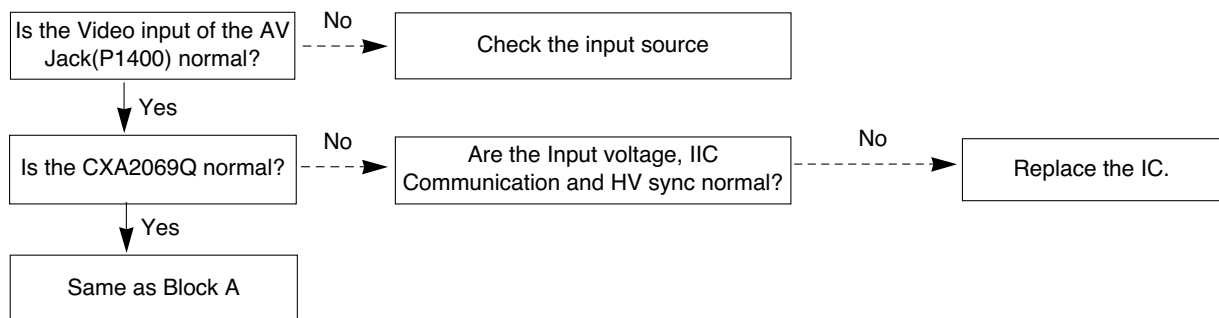
(2) Procedure check

- 1) Check the all input modes have normal display.
- 2) Check the video(main)/ data(sub), video(main)/ video(sub) have normal displays from the PIP mode or DW mode(re-check it/ swap).

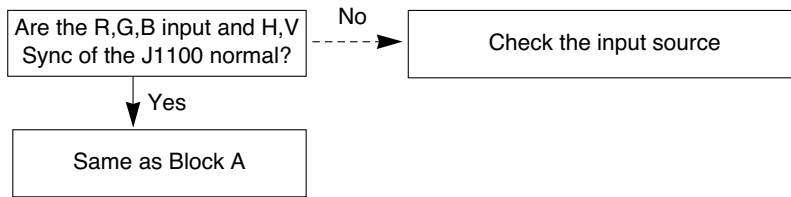
(3) In case of an unusual display in RF mode



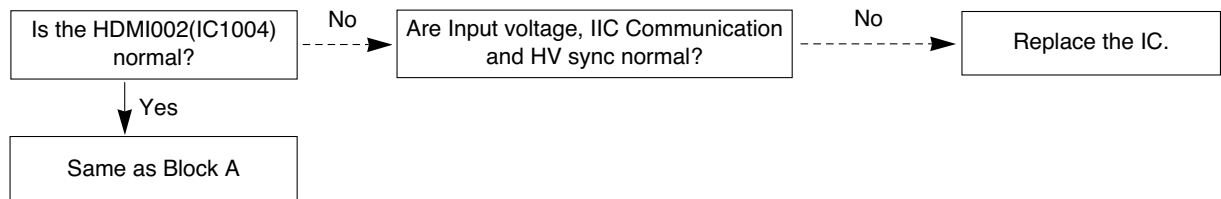
(4) In case of an unusual display in side S-video/ AV mode



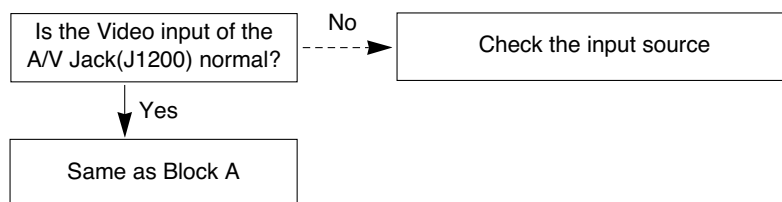
(5) In case of an unusual display in Component, RGB mode



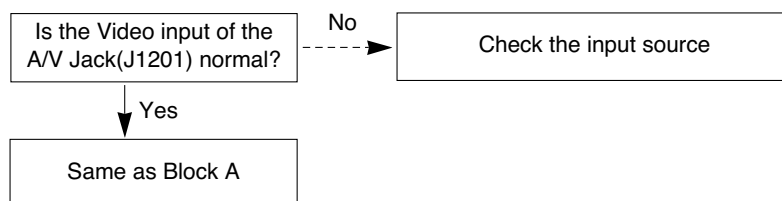
(6) In case of an unusual display in HDMI mode



(7) In case of an unusual display in SCART1 mode



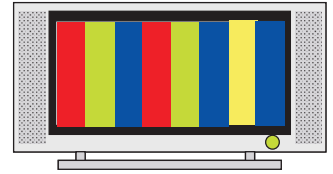
(8) In case of an unusual display in SCART2 mode



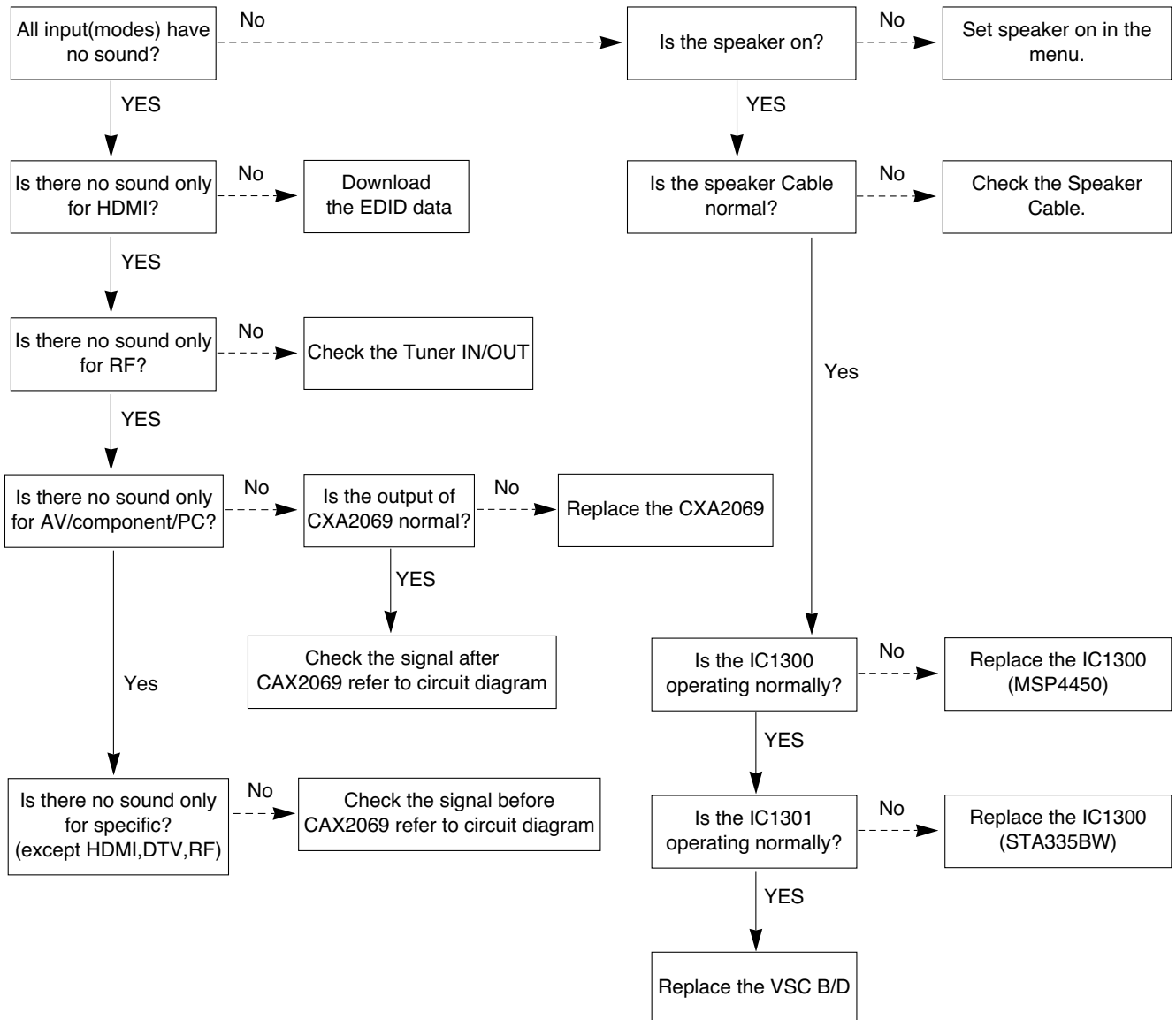
6. In case of no sound

(1) Symptom

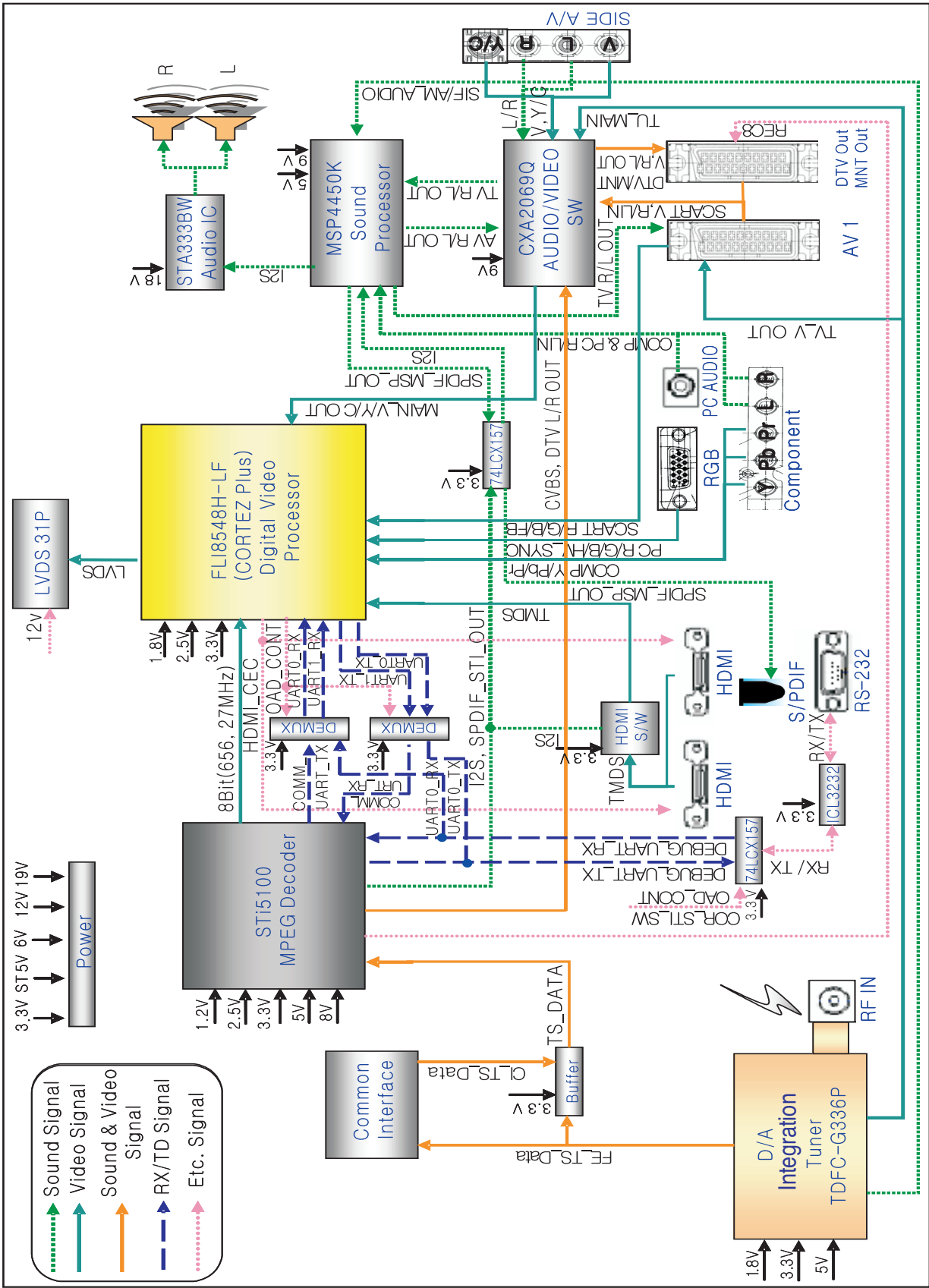
- 1) LED is Green.
- 2) Screen display appears but there is no sound.



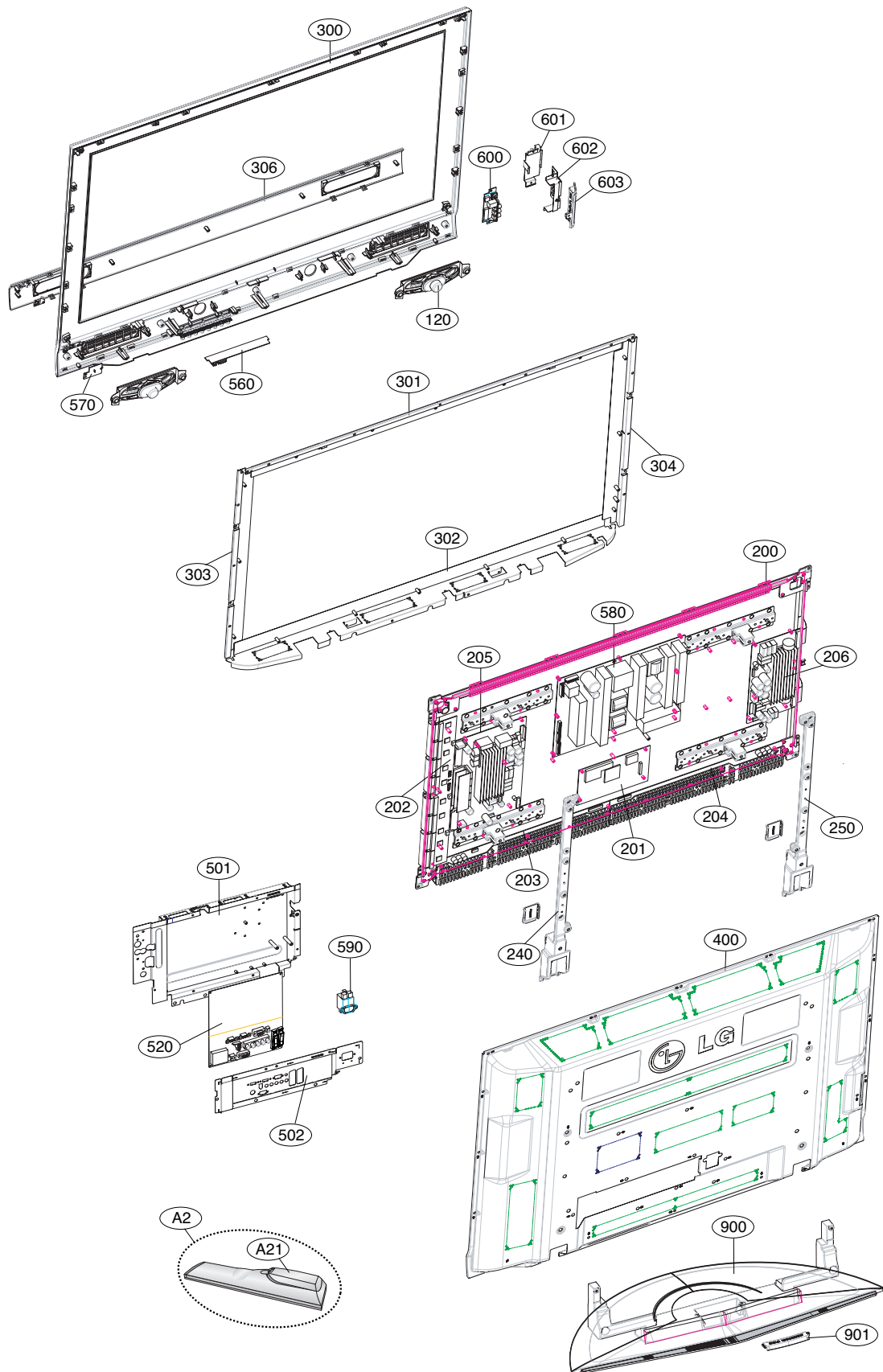
(2) Procedure check




BLOCK DIAGRAM














EXPLODED VIEW



EXPLODED VIEW PARTS LIST

The components identified by mark  is critical for safety.
Replace only with part number specified.

No.	Part No.	Descriptions
120	EAB33775101	Speaker, Full Range EN1562C-6712 ND 10W 8OHM 82DB 100HZ 193.5 X 42 X 39.9 LUG KOREA TOPTONE
 200	EAJ35703201	PDP, Module-XGA PDP42X40201.ASLGB XGA 42INCH 1024X768 16/9 PDP DIVISION
 201	6871QCH089A	Hand Insert PCB Assembly, 6871QCH089A CTRL ASS'Y HAND INSERT 42" X4 PDP DIVISION
 202	6871QDH127A	Hand Insert PCB Assembly, 6871QDH127A YDRV ASS'Y HAND INSERT 42" X4 PDP DIVISION
 203	6871QLH072A	Hand Insert PCB Assembly, 6871QLH072A XRLT ASS'Y HAND INSERT 42" X4 XL PDP DIVISION
 204	6871QRH082A	Hand Insert PCB Assembly, 6871QRH082A XRRT ASS'Y HAND INSERT 42" X4 XR PDP DIVISION
 205	6871QYH063A	Hand Insert PCB Assembly, 6871QYH063A YSUS ASS'Y HAND INSERT 42" X4 2L PDP DIVISION
 206	6871QZH067A	Hand Insert PCB Assembly, 6871QZH067A ZSUS ASS'Y HAND INSERT 42" X4 2L PDP DIVISION
240	AJJ31584103	Supporter Assembly, 42PC5 SUPP.VETICAL R ASSY SKD
250	AJJ31584104	Supporter Assembly, 42PC5 SUPP.VETICAL L ASSY SKD
 300	ABJ31583110	Cabinet Assembly, 42PC5D-UC C/SKD LGERS LOCAL . 42" CABINET ASSY EUROPASS SET
301	AJJ31583603	Supporter Assembly, 42PC5 SUPP.FILTER TOP MA LOCAL
302	AJJ31583703	Supporter Assembly, 42PC5 SUPP.FILTER BOTTOM MA LOCAL
303	AJJ31583803	Supporter Assembly, 42PC5 SUPP.FILTER SIDE R MA LOCAL
304	AJJ31583903	Supporter Assembly, 42PC5 SUPP.FILTER SIDE L MA LOCAL
306	ABA31767902	Bracket Assembly, GRILLE 42PC5 - ASSY BRACKET SPEAKER DIRECT GRILL ALL BLACK
 400	ACQ31583504	Cover Assembly, Rear 42" LGEMA PHANTOM
501	AGU31681116	Plate Assembly, ASSY PLATE TUNER BOT SMALL, 42PC5D-ZB ,MA LOCAL
502	AGU31680922	Plate Assembly, ASSY 42PC5D-ZB(WITH SLOT CARD, MA LOCAL)
520	EBR33721722	Hand Insert PCB Assembly, Main M.I PD73A 42PC5D-ZB KEKLLMP Main M.I PCB Assembly for MA_CKD
560	EBR33718501	Hand Insert PCB Assembly, Sub M.I PD73A 42PC5D - 42PC5D CONTROL MANUAL(Hand Insert PCB)
570	EBR33721001	Hand Insert PCB Assembly, Sub M.I PD73A 42PC5D - 42PC5D IR/LED
 580	EAY32808901	SMPS, AC/DC YPSUJ014A 100VTO240V 400W 50 TO 60HZ UL/CSA/CE/TUV 42INCH XPOWER DISPLAY PSU LG INNOTEK
590	EAM35012703	Filter, AC Line IF2-N06CEWL2 5.3mH 250VAC 6A 0.22uF 1000pF VDE/CSA/K/CCC 450/130MM CORE ADDTION
600	EBR33717101	Hand Insert PCB Assembly, Sub M.I PD73A 42PC5D - 42PC5D side AV hand insert PCB Assy
601	MJH32554901	Supporter, PRESS SBHG 1 GUIDE EGI 42PC5, SUPP. SIDE AV
602	MGJ32369301	Plate, Shield PRESS SPTE 0.3 SHIELD SPTE 42PC5, SHIELD CASE SIDE AV
603	ABA31583301	Bracket Assembly, SIDE AV 42PC5 AB NON
 900	AAN31626704	Base Assembly, ASSY 42PC5 - FIXED STAND WITH LOGO SKD
901	MCK32604801	Cover, MOLD ABS 42PC5 ABS CABLE MANAGEMENT
A2	MKJ32022813	Remote Controller, COMPLEX LD73A 26LC4 EUROPASS_DVB
A21	3550V00590A	Cover, MOLD ABS BATTERY TN-50PY20 ABS 6710V00142A21

REPLACEMENT PARTS LIST

DATE: 2007. 05. 18.

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
CAPACITORS					
C1	0CH3104K566	Ceramic,Chip0805B104K500CT 100nF 10% 50V X7R	C114	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C100	0CH5101K416	Ceramic,ChipC2012C0G1H101JT 100pF 5% 50V C0G	C115	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C100	0CC101CK41A	Ceramic,ChipC1608C0G1H101JT 100pF 5% 50V C0G	C116	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C100	0CC470CK41A	Ceramic,ChipC1608C0G1H470JT 47pF 5% 50V C0G -	C117	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C1003	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -	C118	0CE106WFKDC	AL,ChipMVK4.0TP16VC10M 10uF 20% 16V 16MA
C1004	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -	C119	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C1005	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -	C120	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C1006	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -	C1204	0CC221CK41A	Ceramic,ChipC1608C0G1H221JT 220pF 5% 50V C0G
C1007	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C1205	0CK393CK56A	Ceramic,Chip0603B393K500CT 39nF 10% 50V X7R -
C1008	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C1206	0CK102CK56A	Ceramic,Chip0603B102K500CT 1nF 10% 50V X7R -5
C1009	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C1207	0CK393CK56A	Ceramic,Chip0603B393K500CT 39nF 10% 50V X7R -
C101	0CE4763F618	AL,RadialESF476M016T1A5E05G 47uF 20% 16V 6	C1208	0CK102CK56A	Ceramic,Chip0603B102K500CT 1nF 10% 50V X7R -5
C101	0CC101CK41A	Ceramic,ChipC1608C0G1H101JT 100pF 5% 50V C0G	C1209	0CC221CK41A	Ceramic,ChipC1608C0G1H221JT 220pF 5% 50V C0G
C101	0CK103BH56A	Ceramic,ChipC1005X7R1E103KT- 10nF 10% 25V X7R	C121	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C1010	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C1210	0CC221CK41A	Ceramic,ChipC1608C0G1H221JT 220pF 5% 50V C0G
C102	0CE106WFKDC	AL,ChipMVK4.0TP16VC10M 10uF 20% 16V 16MA	C1211	0CC331CK41A	Ceramic,ChipC1608C0G1H331JT 330pF 5% 50V C0G
C102	0CE4763F618	AL,RadialESF476M016T1A5E05G 47uF 20% 16V 6	C1215	0CC331CK41A	Ceramic,ChipC1608C0G1H331JT 330pF 5% 50V C0G
C103	0CE4763F618	AL,RadialESF476M016T1A5E05G 47uF 20% 16V 6	C1216	0CC331CK41A	Ceramic,ChipC1608C0G1H331JT 330pF 5% 50V C0G
C103	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C1217	0CE106WH6DC	AL,ChipMVK5.0TP25VC10M 10uF 20% 25V 25MA
C104	0CH6330K416	Ceramic,ChipC2012C0G1H330JT 33p 5% 50V C0G -5	C122	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C104	0CK105CD56A	Ceramic,ChipC1608X7R1A105KT 1uF 10% 10V X7R -	C1225	0CE106WH6DC	AL,ChipMVK5.0TP25VC10M 10uF 20% 25V 25MA
C105	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C123	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C106	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C1232	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80
C1068	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80	C1234	0CK102CK56A	Ceramic,Chip0603B102K500CT 1nF 10% 50V X7R -5
C107	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C1235	0CK102CK56A	Ceramic,Chip0603B102K500CT 1nF 10% 50V X7R -5
C108	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C1236	0CE106WH6DC	AL,ChipMVK5.0TP25VC10M 10uF 20% 25V 25MA
C109	0CK105CD56A	Ceramic,ChipC1608X7R1A105KT 1uF 10% 10V X7R -	C1237	0CE106WH6DC	AL,ChipMVK5.0TP25VC10M 10uF 20% 25V 25MA
C110	0CE106WFKDC	AL,ChipMVK4.0TP16VC10M 10uF 20% 16V 16MA	C1239	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C1100	0CC050CK11A	Ceramic,ChipC1608C0G1H050DT 5pF 0.5PF 50V C0G	C124	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C1101	0CC050CK11A	Ceramic,ChipC1608C0G1H050DT 5pF 0.5PF 50V C0G	C1244	0CK393CK56A	Ceramic,Chip0603B393K500CT 39nF 10% 50V X7R -
C1104	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -	C1246	0CK393CK56A	Ceramic,Chip0603B393K500CT 39nF 10% 50V X7R -
C1105	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -	C1247	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80
C1106	0CC120CK41A	Ceramic,ChipC1608C0G1H120JT 12pF 5% 50V C0G -	C1248	0CC050CK11A	Ceramic,ChipC1608C0G1H050DT 5pF 0.5PF 50V C0G
C1108	0CC120CK41A	Ceramic,ChipC1608C0G1H120JT 12pF 5% 50V C0G -	C1249	0CC050CK11A	Ceramic,ChipC1608C0G1H050DT 5pF 0.5PF 50V C0G
C111	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C125	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C1116	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C1250	0CC050CK11A	Ceramic,ChipC1608C0G1H050DT 5pF 0.5PF 50V C0G
C1119	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C1251	0CC050CK11A	Ceramic,ChipC1608C0G1H050DT 5pF 0.5PF 50V C0G
C112	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C1252	0CC050CK11A	Ceramic,ChipC1608C0G1H050DT 5pF 0.5PF 50V C0G
C1120	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C1253	0CC050CK11A	Ceramic,ChipC1608C0G1H050DT 5pF 0.5PF 50V C0G
C1121	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C1254	0CC050CK11A	Ceramic,ChipC1608C0G1H050DT 5pF 0.5PF 50V C0G
C1123	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C1255	0CC050CK11A	Ceramic,ChipC1608C0G1H050DT 5pF 0.5PF 50V C0G
C1125	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C126	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C1128	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C127	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C113	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C128	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C1132	0CC681CK41A	Ceramic,ChipC1608C0G1H681JT 680pF 5% 50V C0G	C129	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C1133	0CK104BF56A	Ceramic,ChipC1005X7R104KET 100nF 10% 16V X7R	C130	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C1134	0CK104BF56A	Ceramic,ChipC1005X7R104KET 100nF 10% 16V X7R	C1300	0CK105DH56A	Ceramic,ChipC2012X7R105KFT 1uF 10% 25V X7R -5
C1135	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C1301	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C1136	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C1302	0CE108EH618	AL,RadialKMG5.0TP25VB1000M 1000uF 20% 25V
			C1303	0CK105DH56A	Ceramic,ChipC2012X7R105KFT 1uF 10% 25V X7R -5

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
C1304	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C1363	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C1305	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C1364	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C1306	0CK222CK56A	Ceramic,Chip0603B222K500CT 2.2nF 10% 50V X7R	C1365	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C1307	0CK682CK51A	Ceramic,ChipC1608Y5P1H682KT 6.8nF 10% 50V Y5P	C1366	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C1308	0CK682CK51A	Ceramic,ChipC1608Y5P1H682KT 6.8nF 10% 50V Y5P	C1367	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C1309	0CE475WK6DC	AL,ChipMVK5.0TP50VC4.7M 4.7uF 20% 50V 19	C1368	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C131	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C1369	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C1310	0CE475WK6DC	AL,ChipMVK5.0TP50VC4.7M 4.7uF 20% 50V 19	C137	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C1311	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C1370	0CF4741L430	Film,DIPPCMT365 76474 470nF 5% 63V MPE -4
C1312	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -	C1371	0CF4741L430	Film,DIPPCMT365 76474 470nF 5% 63V MPE -4
C1313	0CE226WF6DC	AL,ChipMVK5.0TP16VC22M 22uF 20% 16V 30MA	C1373	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C1314	0CC030CK01A	Ceramic,Chip0603N3R0C500LT 3pF 0.25PF 50V C0G	C138	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C1315	0CC030CK01A	Ceramic,Chip0603N3R0C500LT 3pF 0.25PF 50V C0G	C139	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C1316	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C140	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C1317	0CC560CK41A	Ceramic,ChipC1608C0G1H560JT 56pF 5% 50V C0G -	C1400	0CE475WK6DC	AL,ChipMVK5.0TP50VC4.7M 4.7uF 20% 50V 19
C1318	0CC560CK41A	Ceramic,ChipC1608C0G1H560JT 56pF 5% 50V C0G -	C1401	0CE475WK6DC	AL,ChipMVK5.0TP50VC4.7M 4.7uF 20% 50V 19
C1319	0CE335WK6D8	AL,ChipMVK4.0TP50VC3.3M 3.3uF 20% 50V 14	C1402	0CK682CK51A	Ceramic,ChipC1608Y5P1H682KT 6.8nF 10% 50V Y5P
C132	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C1403	0CK682CK51A	Ceramic,ChipC1608Y5P1H682KT 6.8nF 10% 50V Y5P
C1320	0CK474CH94A	Ceramic,Chip0603F474Z250CT 470nF -20TO+80% 25	C1404	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -
C1321	0CK474CH94A	Ceramic,Chip0603F474Z250CT 470nF -20TO+80% 25	C1407	0CE226WF6DC	AL,ChipMVK5.0TP16VC22M 22uF 20% 16V 30MA
C1322	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -	C1408	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80
C1325	0CE226WF6DC	AL,ChipMVK5.0TP16VC22M 22uF 20% 16V 30MA	C1409	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C1326	0CK474CH94A	Ceramic,Chip0603F474Z250CT 470nF -20TO+80% 25	C141	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C1327	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C1410	0CE476WF6DC	AL,ChipMVK6.3TP16VC47M 47uF 20% 16V 80MA
C1329	0CK474CH94A	Ceramic,Chip0603F474Z250CT 470nF -20TO+80% 25	C1411	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -
C133	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C1412	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C1330	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -	C1413	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C1332	0CK474CH94A	Ceramic,Chip0603F474Z250CT 470nF -20TO+80% 25	C1418	0CK474CH94A	Ceramic,Chip0603F474Z250CT 470nF -20TO+80% 25
C1333	0CC101CK41A	Ceramic,ChipC1608C0G1H101JT 100pF 5% 50V C0G	C1419	0CK474CH94A	Ceramic,Chip0603F474Z250CT 470nF -20TO+80% 25
C1335	0CK474CH94A	Ceramic,Chip0603F474Z250CT 470nF -20TO+80% 25	C142	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C1338	0CK471CK56A	Ceramic,ChipC1608X7R1H471KT 470pF 10% 50V X7R	C1420	0CK225DFK4A	Ceramic,ChipC2012Y5V1C225MT 2.2uF 20% 16V Y5V
C134	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C1421	0CC820CK41A	Ceramic,ChipC1608C0G1H820JT 82pF 5% 50V C0G -
C1340	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -	C1422	0CK474CH94A	Ceramic,Chip0603F474Z250CT 470nF -20TO+80% 25
C1341	0CE335WK6D8	AL,ChipMVK4.0TP50VC3.3M 3.3uF 20% 50V 14	C1423	0CK474CH94A	Ceramic,Chip0603F474Z250CT 470nF -20TO+80% 25
C1342	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C1426	0CK474CH94A	Ceramic,Chip0603F474Z250CT 470nF -20TO+80% 25
C1343	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80	C1428	0CK225DFK4A	Ceramic,ChipC2012Y5V1C225MT 2.2uF 20% 16V Y5V
C1344	0CE106WH6DC	AL,ChipMVK5.0TP25VC10M 10uF 20% 25V 25MA	C1429	0CK474CH94A	Ceramic,Chip0603F474Z250CT 470nF -20TO+80% 25
C1345	0CE106WH6DC	AL,ChipMVK5.0TP25VC10M 10uF 20% 25V 25MA	C143	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C1346	0CK474CH94A	Ceramic,Chip0603F474Z250CT 470nF -20TO+80% 25	C1439	0CK474CH94A	Ceramic,Chip0603F474Z250CT 470nF -20TO+80% 25
C1347	0CK474CH94A	Ceramic,Chip0603F474Z250CT 470nF -20TO+80% 25	C144	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C135	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C1440	0CK225DFK4A	Ceramic,ChipC2012Y5V1C225MT 2.2uF 20% 16V Y5V
C1350	0CE106WFKDC	AL,ChipMVK4.0TP16VC10M 10uF 20% 16V 16MA	C1441	0CK474CH94A	Ceramic,Chip0603F474Z250CT 470nF -20TO+80% 25
C1351	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C1442	0CK225DFK4A	Ceramic,ChipC2012Y5V1C225MT 2.2uF 20% 16V Y5V
C1352	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C1444	0CK474CH94A	Ceramic,Chip0603F474Z250CT 470nF -20TO+80% 25
C1353	0CK222CK56A	Ceramic,Chip0603B222K500CT 2.2nF 10% 50V X7R	C1445	0CK225DFK4A	Ceramic,ChipC2012Y5V1C225MT 2.2uF 20% 16V Y5V
C1354	0CC102CK41A	Ceramic,ChipC1608C0G1H102JT 1nF 5% 50V C0G -5	C1447	0CK474CH94A	Ceramic,Chip0603F474Z250CT 470nF -20TO+80% 25
C1355	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C1448	0CK474CH94A	Ceramic,Chip0603F474Z250CT 470nF -20TO+80% 25
C1356	0CC101CK41A	Ceramic,ChipC1608C0G1H101JT 100pF 5% 50V C0G	C1449	0CK225DFK4A	Ceramic,ChipC2012Y5V1C225MT 2.2uF 20% 16V Y5V
C1357	0CC221CK41A	Ceramic,ChipC1608C0G1H221JT 220pF 5% 50V C0G	C145	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C1358	0CH2122K516	Ceramic,Chip0805B122K500CT 1.2nF 10% 50V Y5P	C1450	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C1359	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C1451	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C136	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C1452	0CC150CK41A	Ceramic,ChipC1608C0G1H150JT 15pF 5% 50V C0G -
C1360	0CC331CK41A	Ceramic,ChipC1608C0G1H331JT 330pF 5% 50V C0G	C1453	0CC150CK41A	Ceramic,ChipC1608C0G1H150JT 15pF 5% 50V C0G -
C1361	0CC331CK41A	Ceramic,ChipC1608C0G1H331JT 330pF 5% 50V C0G	C146	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C1362	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C147	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
C148	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C193	0CK822CK46A	Ceramic,Chip0603B822J500CT 8.2nF 10% 50V X7R
C149	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C194	0CK822CK46A	Ceramic,Chip0603B822J500CT 8.2nF 10% 50V X7R
C150	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C195	0CC220CK41A	Ceramic,ChipC1608C0G1H220JT 22pF 5% 50V C0G -
C151	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C196	0CC100CK41A	Ceramic,ChipC1608C0G1H100JT 10pF 5% 50V C0G -
C152	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C197	0CK475CC94A	Ceramic,ChipC1608Y5V0J475ZT 4.7uF -20TO+80% 6
C153	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C198	0CK475CC94A	Ceramic,ChipC1608Y5V0J475ZT 4.7uF -20TO+80% 6
C154	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C199	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C155	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C200	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -
C156	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C201	0CC470CK41A	Ceramic,ChipC1608C0G1H470JT 47pF 5% 50V C0G -
C157	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C202	0CC101CK41A	Ceramic,ChipC1608C0G1H101JT 100pF 5% 50V C0G
C158	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C203	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C159	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C204	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -
C160	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C206	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C161	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C207	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C162	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C209	EAE32755801	Ceramic,ChipCL31A106K5HNNNE 10uF 10% 16V X5R
C163	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C212	EAE32755801	Ceramic,ChipCL31A106K5HNNNE 10uF 10% 16V X5R
C164	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C213	EAE32755801	Ceramic,ChipCL31A106K5HNNNE 10uF 10% 16V X5R
C165	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C216	EAE32755801	Ceramic,ChipCL31A106K5HNNNE 10uF 10% 16V X5R
C166	EAE32755801	Ceramic,ChipCL31A106K5HNNNE 10uF 10% 16V X5R	C218	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -
C167	EAE32755801	Ceramic,ChipCL31A106K5HNNNE 10uF 10% 16V X5R	C219	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -
C168	EAE32755801	Ceramic,ChipCL31A106K5HNNNE 10uF 10% 16V X5R	C220	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -
C169	0CC100CK41A	Ceramic,ChipC1608C0G1H100JT 10pF 5% 50V C0G -	C221	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -
C170	0CC220CK41A	Ceramic,ChipC1608C0G1H220JT 22pF 5% 50V C0G -	C222	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -
C1700	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C224	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -
C1701	0CK104BF56A	Ceramic,ChipC1005X7R104KET 100nF 10% 16V X7R	C226	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80
C1702	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C227	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80
C1703	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C228	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -
C1705	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C229	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -
C1706	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C230	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -
C1707	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C231	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -
C1708	0CE226WF6DC	AL,ChipMVK5.0TP16VC22M 22uF 20% 16V 30MA	C232	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -
C1709	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C233	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -
C171	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -	C234	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C1710	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C235	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C172	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -	C236	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C173	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C237	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C174	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C238	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C175	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -	C239	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C176	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -	C240	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C177	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -	C241	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C178	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C242	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C179	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C243	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C180	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C301	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C181	0CE106WFKDC	AL,ChipMVK4.0TP16VC10M 10uF 20% 16V 16MA	C302	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C182	0CK105CD56A	Ceramic,ChipC1608X7R1A105KT 1uF 10% 10V X7R -	C303	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C183	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C306	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C184	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C307	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C185	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C308	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C186	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C309	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C187	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C310	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C188	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -	C311	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C189	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -	C312	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C190	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -	C313	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C191	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -	C314	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C192	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -	C409	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
C410	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C615	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C411	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C616	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C412	0CE106WFKDC	AL,ChipMVK4.0TP16VC10M 10uF 20% 16V 16MA	C623	0CC470CK41A	Ceramic,ChipC1608C0G1H470JT 47pF 5% 50V C0G -
C413	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C624	0CC470CK41A	Ceramic,ChipC1608C0G1H470JT 47pF 5% 50V C0G -
C414	0CE106WFKDC	AL,ChipMVK4.0TP16VC10M 10uF 20% 16V 16MA	C625	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C415	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C626	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C429	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C627	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R
C430	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	C630	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80
C515	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80	C633	0CK475CC94A	Ceramic,ChipC1608Y5V0J475ZT 4.7uF -20TO+80% 6
C516	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C635	0CK472CK56A	Ceramic,Chip0603B472K500CT 4.7nF 10% 50V X7R
C517	0CE227WF6DC	AL,ChipMVK8.0TP16VC220M 220uF 20% 16V 80	C636	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -
C518	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C637	0CK472CK56A	Ceramic,Chip0603B472K500CT 4.7nF 10% 50V X7R
C519	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80	C638	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80
C520	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C639	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80
C521	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C640	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80
C522	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80	C641	0CC470CK41A	Ceramic,ChipC1608C0G1H470JT 47pF 5% 50V C0G -
C523	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80	C642	0CC470CK41A	Ceramic,ChipC1608C0G1H470JT 47pF 5% 50V C0G -
C524	0CE477WF6DC	AL,ChipMVK10TP16VC470M 470uF 20% 16V 80M	C700	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C525	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C701	0CE226WF6DC	AL,ChipMVK5.0TP16VC22M 22uF 20% 16V 30MA
C526	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C702	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C527	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80	C703	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C528	0CE227WF6DC	AL,ChipMVK8.0TP16VC220M 220uF 20% 16V 80	C704	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C529	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C705	0CE226WF6DC	AL,ChipMVK5.0TP16VC22M 22uF 20% 16V 30MA
C530	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C706	0CK104BF56A	Ceramic,ChipC1005X7R104KET 100nF 10% 16V X7R
C531	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C707	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C532	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C708	0CK104BF56A	Ceramic,ChipC1005X7R104KET 100nF 10% 16V X7R
C533	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80	C709	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C534	0CE227WF6DC	AL,ChipMVK8.0TP16VC220M 220uF 20% 16V 80	C710	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C535	0CK105CD56A	Ceramic,ChipC1608X7R1A105KT 1uF 10% 10V X7R -	C711	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C537	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C712	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C539	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C713	0CK104BF56A	Ceramic,ChipC1005X7R104KET 100nF 10% 16V X7R
C540	0CK105CD56A	Ceramic,ChipC1608X7R1A105KT 1uF 10% 10V X7R -	C714	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C541	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80	C715	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C542	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C716	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C543	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80	C717	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C544	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C718	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C548	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80	C721	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C549	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80	C722	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C550	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C723	0CE226WF6DC	AL,ChipMVK5.0TP16VC22M 22uF 20% 16V 30MA
C551	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C724	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C553	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C725	0CC200CK41A	Ceramic,ChipC1608C0G1H200JT 20pF 5% 50V C0G -
C554	0CK105CD56A	Ceramic,ChipC1608X7R1A105KT 1uF 10% 10V X7R -	C726	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C555	0CK105CD56A	Ceramic,ChipC1608X7R1A105KT 1uF 10% 10V X7R -	C727	0CE226WF6DC	AL,ChipMVK5.0TP16VC22M 22uF 20% 16V 30MA
C601	0CC101CK41A	Ceramic,ChipC1608C0G1H101JT 100pF 5% 50V C0G	C728	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C602	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C729	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C603	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -	C730	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C604	0CC100CK41A	Ceramic,ChipC1608C0G1H100JT 10pF 5% 50V C0G -	C732	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C605	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C733	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C606	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C734	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C608	0CC101CK41A	Ceramic,ChipC1608C0G1H101JT 100pF 5% 50V C0G	C736	0CE226WF6DC	AL,ChipMVK5.0TP16VC22M 22uF 20% 16V 30MA
C609	0CK104CF56A	Ceramic,Chip0603B104K160CT 100nF 10% 16V X7R	C737	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C610	0CC271CK41A	Ceramic,ChipC1608C0G1H271JT 270pF 5% 50V C0G	C738	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C611	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80	C739	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R
C612	0CE476WF6DC	AL,ChipMVK6.3TP16VC47M 47uF 20% 16V 80MA	C740	0CE226WF6DC	AL,ChipMVK5.0TP16VC22M 22uF 20% 16V 30MA
C613	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80	C741	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
C910	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	ZD1106	EAH33945901	TVSCDS3C30GTH 30V 50V 120V 1.9A 1W S
C911	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -	ZD1107	EAH33945901	TVSCDS3C30GTH 30V 50V 120V 1.9A 1W S
C912	0CE476WF6DC	AL,ChipMVK6.3TP16VC47M 47uF 20% 16V 80MA	ZD1108	EAH33945901	TVSCDS3C30GTH 30V 50V 120V 1.9A 1W S
C914	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	ZD1109	EAH33945901	TVSCDS3C30GTH 30V 50V 120V 1.9A 1W S
C915	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80	ZD1110	EAH33945901	TVSCDS3C30GTH 30V 50V 120V 1.9A 1W S
C917	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	ZD1111	EAH33945901	TVSCDS3C30GTH 30V 50V 120V 1.9A 1W S
C924	0CE107WH6DC	AL,ChipMVK8.0TP25VC100M 100uF 20% 25V 18	ZD1112	EAH33945901	TVSCDS3C30GTH 30V 50V 120V 1.9A 1W S
C925	0CE227WF6DC	AL,ChipMVK8.0TP16VC220M 220uF 20% 16V 80	ZD1113	EAH33945901	TVSCDS3C30GTH 30V 50V 120V 1.9A 1W S
C928	0CE227WF6DC	AL,ChipMVK8.0TP16VC220M 220uF 20% 16V 80	ZD1114	EAH33945901	TVSCDS3C30GTH 30V 50V 120V 1.9A 1W S
C929	0CE227WF6DC	AL,ChipMVK8.0TP16VC220M 220uF 20% 16V 80	ZD1203	EAH33945901	TVSCDS3C30GTH 30V 50V 120V 1.9A 1W S
C931	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	ZD1211	EAH33946001	TVSCDS3C05GTA 5.6V 6.4V 19V 1.9A 1W
C932	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	ZD1212	EAH33946001	TVSCDS3C05GTA 5.6V 6.4V 19V 1.9A 1W
C933	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	ZD1218	EAH33945901	TVSCDS3C30GTH 30V 50V 120V 1.9A 1W S
C934	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	ZD1219	EAH33945901	TVSCDS3C30GTH 30V 50V 120V 1.9A 1W S
C935	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	ZD1220	EAH33945901	TVSCDS3C30GTH 30V 50V 120V 1.9A 1W S
C937	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80	ZD1221	EAH33945901	TVSCDS3C30GTH 30V 50V 120V 1.9A 1W S
C954	0CE477WF6DC	AL,ChipMVK10TP16VC470M 470uF 20% 16V 80M	ZD1222	EAH33945901	TVSCDS3C30GTH 30V 50V 120V 1.9A 1W S
C955	0CK474CH94A	Ceramic,Chip0603F474Z250CT 470nF -20TO+80% 25	ZD1223	EAH33945901	TVSCDS3C30GTH 30V 50V 120V 1.9A 1W S
C956	0CK474CH94A	Ceramic,Chip0603F474Z250CT 470nF -20TO+80% 25	ZD1224	EAH33945901	TVSCDS3C30GTH 30V 50V 120V 1.9A 1W S
C957	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80	ZD1226	EAH33945901	TVSCDS3C30GTH 30V 50V 120V 1.9A 1W S
C958	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80	ZD1300	0DZRM00248A	ZenerRLZ8.2B 8.2V 7.78TO8.19V 80HM 500
C959	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80	D100	0DL200000CA	LED, DIPSAM5670(DL-2LRG) ROUND 4.8MM Y-GR
C960	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	ICs		
C961	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	IC100	0IPRP00703B	Data ControllerSTI5100GUC 3.3V 5u 27M PBGA TR 33
C962	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	IC1002	0IMMRAL014D	EEPROMAT24C02BN-10SU-1.8 2KBIT 256x8BIT
C969	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80	IC1003	0IMMRAL014D	EEPROMAT24C02BN-10SU-1.8 2KBIT 256x8BIT
C970	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80	IC1004	EAN33595101	Analog MultiplexerSTHDMI002A 3.135TO3.465 9NSEC
C971	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80	IC102	0ISTLPH026A	CMOS74LVC14APW 1.2TO3.6V 0.01mA SCHMI
C972	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	IC103	0IMP242560A	EEPROM24LC256T-I/SM 256KBIT 256KX8BIT 2
C973	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	IC1100	0IMMRAL014D	EEPROMAT24C02BN-10SU-1.8 2KBIT 256x8BIT
C974	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	IC1101	0IPH741400E	CMOS74HC14D 2TO6V 0.002mA SCHMITT TRI
C975	0CE107WF6DC	AL,ChipMVK6.3TP16VC100M 100uF 20% 16V 80	IC1102	0IPRP00009A	Tx/RxICL3232CBNZ 3VTO5.5V - SSOP R/TP
C977	0CK104CK56A	Ceramic,Chip0603B104K500CT 100nF 10% 50V X7R	IC1104	0ITO741570C	CMOSTC74LCX157FT 2TO3.6V 0.01mA MULTI
C980	0CK103CK56A	Ceramic,Chip0603B103K500CT 10nF 10% 50V X7R -	IC1105	0IMCRFA018A	CMOSNC7SB3157P6X_NL 1.65TO5.5V 0.001m
C981	0CE476WF6DC	AL,ChipMVK6.3TP16VC47M 47uF 20% 16V 80MA	IC1106	0IMCRFA018A	CMOSNC7SB3157P6X_NL 1.65TO5.5V 0.001m
DIODEs			IC1300	0IMCRMN028C	Sound/Audio ProcessorMSP4450K-QA-D6
D100	EAH33945901	TVSCDS3C30GTH 30V 50V 120V 1.9A 1W S	IC1301	0ILNR00261C	Audio AmplifierSTA335BW 5TO26V 0 10% 20W 0W 80dB
D1000	0DD184009AA	Diode AssemblyKDS184 KDS184 TP KEC - 85V	IC1400	0ISO206900A	Analog SwitchCXA2069Q 8.5TO9.5V - - 1.3W QFP T
D1001	0DD184009AA	Diode AssemblyKDS184 KDS184 TP KEC - 85V	IC200	0IPMG78391A	Voltage RegulatorSC2595STR 2.3TO5V 0 0W SOIC R/TP
D101	EAH33946001	TVSCDS3C05GTA 5.6V 6.4V 19V 1.9A 1W	IC202	0IMMRIH038B	SDRAMHYB25D(C)256160CE-5 256MBIT 4MX16
D102	EAH33946001	TVSCDS3C05GTA 5.6V 6.4V 19V 1.9A 1W	IC300	0ISTLPH003B	CMOS74LVC541APW 1.2TO3.6V 0.01mA BUFF
D103	EAH33945901	TVSCDS3C30GTH 30V 50V 120V 1.9A 1W S	IC301	0IMCRFA013A	CMOS74LCX244MTC 2TO3.6V 0.01mA BUFFER
D104	EAH33945901	TVSCDS3C30GTH 30V 50V 120V 1.9A 1W S	IC302	0ISTLPH003B	CMOS74LVC541APW 1.2TO3.6V 0.01mA BUFF
D900	0DS226009AA	SwitchingKDS226 1.2V 85V 300MA 2A 4NSEC 15	IC303	0IMCRFA013A	CMOS74LCX244MTC 2TO3.6V 0.01mA BUFFER
D902	0DS226009AA	SwitchingKDS226 1.2V 85V 300MA 2A 4NSEC 15	IC304	0ISTLPH048A	CMOS74LVC245APW 1.2TO3.6V 0.01mA TRAN
D903	0DS226009AA	SwitchingKDS226 1.2V 85V 300MA 2A 4NSEC 15	IC305	0ISTL00083A	CMOS74LCX373MTC 2.0V to 3.6V 10uA LAT
D904	0DS226009AA	SwitchingKDS226 1.2V 85V 300MA 2A 4NSEC 15	IC306	0ISTL00083A	CMOS74LCX373MTC 2.0V to 3.6V 10uA LAT
D905	0DS226009AA	SwitchingKDS226 1.2V 85V 300MA 2A 4NSEC 15	IC402	0ITO740800C	CMOSTC74LCX08FT 2TO3.6V 10uA AND GATE
D906	0DD100009AM	RectifierEU1ZV(1) 200V 2.5V 10UA 15A 400NS	IC403	0IMCRPH015A	CMOS74LVC32AD 1.2TO3.6V 0.01mA OR GAT
ZD1100	EAH33946001	TVSCDS3C05GTA 5.6V 6.4V 19V 1.9A 1W	IC404	0ISTLPH026A	CMOS74LVC14APW 1.2TO3.6V 0.01mA SCHMI
ZD1101	EAH33946001	TVSCDS3C05GTA 5.6V 6.4V 19V 1.9A 1W	IC410	0ITO741570C	CMOSTC74LCX157FT 2TO3.6V 0.01mA MULTI
ZD1104	EAH33945901	TVSCDS3C30GTH 30V 50V 120V 1.9A 1W S	IC500	0IMCRSJ001A	LDO Voltage RegulatorSC1565IST-1.8 2.2TO5.5V 1.8V
ZD1105	EAH33945901	TVSCDS3C30GTH 30V 50V 120V 1.9A 1W S	IC501	0IPMG00027A	LDO Voltage RegulatorSC156515M-1.8TR 2.2TO5.5V

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IC502	0IMCRSJ001B	LDO Voltage RegulatorSC1565IST-2.5TR 2.2TO5V 2.5V	L1413	6210TCE001E	BeadHB-1M2012-800JT(H:1mm) 80OHM 2X1.
IC503	0IPMGKE030A	LDO Voltage RegulatorKIA78R05F 6TO12V 5V 8W DPAK	L400	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.
IC504	0IPMGKE031A	LDO Voltage RegulatorKIA78R33F 4TO10V 3.3V 8W	L606	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.
IC505	0IPMGKE031A	LDO Voltage RegulatorKIA78R33F 4TO10V 3.3V 8W	L607	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.
IC506	0ISTL00029A	OP AmplifierMC33078DR2G +-5TO+-18V 2mV 0.002%	L700	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.
IC507	0IPMGKE030A	LDO Voltage RegulatorKIA78R05F 6TO12V 5V 8W DPAK	L701	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.
IC600	0IPRP00602A	Analog SwitchTPS2010ADR 2.7TO5.5V 8.6MSEC 3.4M	L703	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.
IC700	EAN33595901	Video ProcessorsFLI8548H-LF-BE 300MVTO3.6V,300MVT	L704	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.
IC701	0IMP242560A	EEPROM24LC256T-I/SM 256KBIT 256KX8BIT 2	L705	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.
IC702	EAN34099701	EEPROMM2404HEPROM 4KBIT 512 x 8bit 2.5V	L706	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.
IC801	0IMMRIH038B	SDRAMHYB25D(C)256160CE-5 256MBIT 4MX16	L707	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.
IC804	0IPMG78391A	Voltage RegulatorSC2595STR 2.3TO5V 0 0W SOIC R/TP	L900	6210TCE001X	BeadHU-1H4532-121JT 120OHM 4.5X3.2X1.
IC900	0IPMGFA061A	LDO Voltage RegulatorFAN1587AD33X 4.8TO10.3V 3.3V	L907	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.
IC901	0IPMGFA061A	LDO Voltage RegulatorFAN1587AD33X 4.8TO10.3V 3.3V	L909	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.
IC902	0IPMG00107A	LDO Voltage RegulatorAZ1117H-2.5TR/E1 15V 2.5V 0W	L911	6210TCE001X	BeadHU-1H4532-121JT 120OHM 4.5X3.2X1.
IC903	0IPMG00027A	LDO Voltage RegulatorSC156515M-1.8TR 2.2TO5.5V	L912	6210TCE001X	BeadHU-1H4532-121JT 120OHM 4.5X3.2X1.
IC904	EAN32662801	Voltage RegulatorKA7809ERTM 35V to 40V 9V 1W DPAK	L913	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.
FILTERs & INDUCTORS			L918	6210TCE001X	BeadHU-1H4532-121JT 120OHM 4.5X3.2X1.
F1	6210VH0004A	Ferrite Core6210VH0004A 100OHM 30MM	L919	6210TCE001X	BeadHU-1H4532-121JT 120OHM 4.5X3.2X1.
L100	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.	L923	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.
L101	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.	L925	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.
L102	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.	X100	6212AC2002B	Crystal, 9H03200164 32.768KHZ 20PPM 12.5pF
L103	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.	X101	6212AB2883A	Crystal, HC-49SM 27.00000MHZ 27MHZ 30PPM 1
L104	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.	X1300	156-A02R	Crystal, EUA18.4320F16E33L 18.432MHZ 30PPM
L105	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.	X700	6212AB2015J	Crystal, HC-49SM 19.66080HZ 19.6608HZ 30PP
L106	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.	L100	0LC2232101A	Inductor, FI-D3216-223KJT 22UH 10% - 25MA 1
L108	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.	L109	0LC1032101A	Inductor, FI-C3216-103KJT 10UH 10% - 50MA 0
L1101	6210TCE001L	BeadHB-1T2012-102JT 1000OHM 2X1.25X1M	L1209	0LC0233002A	Inductor, FI-B2012-332KJT 3.3UH 10% 50V 50M
L1102	6210TCE001L	BeadHB-1T2012-102JT 1000OHM 2X1.25X1M	L1210	0LC0233002A	Inductor, FI-B2012-332KJT 3.3UH 10% 50V 50M
L1104	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.	L1213	0LC0233002A	Inductor, FI-B2012-332KJT 3.3UH 10% 50V 50M
L1105	6210TCE001P	BeadHB-1S2012-121JT(H:1mm) 120OHM 2X1	L1214	0LC0233002A	Inductor, FI-B2012-332KJT 3.3UH 10% 50V 50M
L1106	6210TCE001P	BeadHB-1S2012-121JT(H:1mm) 120OHM 2X1	L1216	0LC0233002A	Inductor, FI-B2012-332KJT 3.3UH 10% 50V 50M
L1107	6210TCE001P	BeadHB-1S2012-121JT(H:1mm) 120OHM 2X1	L1217	0LC0233002A	Inductor, FI-B2012-332KJT 3.3UH 10% 50V 50M
L1108	6210TCE001P	BeadHB-1S2012-121JT(H:1mm) 120OHM 2X1	L1218	0LC0233002A	Inductor, FI-B2012-332KJT 3.3UH 10% 50V 50M
L1109	6210TCE001P	BeadHB-1S2012-121JT(H:1mm) 120OHM 2X1	L1219	0LC0233002A	Inductor, FI-B2012-332KJT 3.3UH 10% 50V 50M
L1206	6210TCE001Z	BeadHH-1M2012-600JT 60OHM 2X1.25X1MM	L1220	0LC0233002A	Inductor, FI-B2012-332KJT 3.3UH 10% 50V 50M
L1207	6210TCE001Z	BeadHH-1M2012-600JT 60OHM 2X1.25X1MM	L1221	0LC0233002A	Inductor, FI-B2012-332KJT 3.3UH 10% 50V 50M
L1208	6210TCE001Z	BeadHH-1M2012-600JT 60OHM 2X1.25X1MM	L1222	0LC0233002A	Inductor, FI-B2012-332KJT 3.3UH 10% 50V 50M
L1211	6210TCE001L	BeadHB-1T2012-102JT 1000OHM 2X1.25X1M	L1304	0LCTO00019A	Inductor, D75C-646CY-220M=P3 22UH 20% 0V 1.
L1212	6210TCE001L	BeadHB-1T2012-102JT 1000OHM 2X1.25X1M	L1305	0LCTO00019A	Inductor, D75C-646CY-220M=P3 22UH 20% 0V 1.
L1300	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.	L1306	0LCTO00019A	Inductor, D75C-646CY-220M=P3 22UH 20% 0V 1.
L1301	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.	L1307	0LCTO00019A	Inductor, D75C-646CY-220M=P3 22UH 20% 0V 1.
L1302	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.	L600	0LCTA00003A	Inductor, LEMC3225T6R8M 6.8UH 20% 50V 360MA
L1303	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.	L601	0LCTA00003A	Inductor, LEMC3225T6R8M 6.8UH 20% 50V 360MA
L1309	6210TCE001S	BeadHU-1M2012-121 120OHM 2X1.25X1MM S	L604	0LC0233002A	Inductor, FI-B2012-332KJT 3.3UH 10% 50V 50M
L1310	6210TCE001S	BeadHU-1M2012-121 120OHM 2X1.25X1MM S	L605	0LCTA00003A	Inductor, LEMC3225T6R8M 6.8UH 20% 50V 360MA
L1311	6210TCE001S	BeadHU-1M2012-121 120OHM 2X1.25X1MM S	TRANSISTORS & FETs		
L1312	6210TCE001S	BeadHU-1M2012-121 120OHM 2X1.25X1MM S	Q1001	0TR830009BA	FETBSS83 N-CHANNEL MOSFET 10V 2 50MA
L1314	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.	Q100	0TRIY80001A	Bipolar2SC3052 NPN 6V 50V 50V 200MA 100N
L1315	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.	Q101	0TRIY80001A	Bipolar2SC3052 NPN 6V 50V 50V 200MA 100N
L1401	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.	Q1100	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M
L1403	6210TCE001G	BeadHH-1M3216-501JT 500OHM 3.2X1.6X1.	Q1200	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M
L1412	6210TCE001E	BeadHB-1M2012-800JT(H:1mm) 80OHM 2X1.	Q1201	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
Q1202	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M	AR204	0RJ0222C687	ArrayRCA86TRJ22R0 22OHM 5% 1/16W 4 SMD
Q1203	0TR102009AM	BipolarKRA102S PNP -30V 0V -50V -0.1A -0	AR205	0RJ0222C687	ArrayRCA86TRJ22R0 22OHM 5% 1/16W 4 SMD
Q1204	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M	AR206	0RJ0222C687	ArrayRCA86TRJ22R0 22OHM 5% 1/16W 4 SMD
Q1300	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M	AR303	0RJ0332C687	ArrayRCA86TRJ33R0 33OHM 5% 1/16W 4 SMD
Q1301	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M	AR304	0RJ0332C687	ArrayRCA86TRJ33R0 33OHM 5% 1/16W 4 SMD
Q1302	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M	AR305	0RJ0332C687	ArrayRCA86TRJ33R0 33OHM 5% 1/16W 4 SMD
Q1303	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M	AR306	0RJ0332C687	ArrayRCA86TRJ33R0 33OHM 5% 1/16W 4 SMD
Q1304	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M	AR307	0RJ0332C687	ArrayRCA86TRJ33R0 33OHM 5% 1/16W 4 SMD
Q1305	0TR102009AM	BipolarKRA102S PNP -30V 0V -50V -0.1A -0	AR308	0RJ0332C687	ArrayRCA86TRJ33R0 33OHM 5% 1/16W 4 SMD
Q1400	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M	AR309	0RJ0332C687	ArrayRCA86TRJ33R0 33OHM 5% 1/16W 4 SMD
Q1401	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M	AR310	0RJ0332C687	ArrayRCA86TRJ33R0 33OHM 5% 1/16W 4 SMD
Q1402	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M	AR311	0RJ0332C687	ArrayRCA86TRJ33R0 33OHM 5% 1/16W 4 SMD
Q1403	0TR150400BA	Bipolar2SA1504S(ASY) PNP -5V -50V -50V -	AR312	0RJ0332C687	ArrayRCA86TRJ33R0 33OHM 5% 1/16W 4 SMD
Q1404	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M	AR313	0RJ0332C687	ArrayRCA86TRJ33R0 33OHM 5% 1/16W 4 SMD
Q400	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M	AR314	0RJ0332C687	ArrayRCA86TRJ33R0 33OHM 5% 1/16W 4 SMD
Q401	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M	AR701	0RZZH033273	ArrayMNR04M0ABJ330 33OHM 5% 1/16W 4 SM
Q402	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M	AR702	0RZZH033273	ArrayMNR04M0ABJ330 33OHM 5% 1/16W 4 SM
Q500	0TR102009AM	BipolarKRA102S PNP -30V 0V -50V -0.1A -0	AR704	EBC32260501	ArrayMNR04M0APJ000 0OHM 5% 1/16W 4 SMD
Q502	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M	AR706	0RZZH033273	ArrayMNR04M0ABJ330 33OHM 5% 1/16W 4 SM
Q503	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M	AR708	0RZZH033273	ArrayMNR04M0ABJ330 33OHM 5% 1/16W 4 SM
Q504	0TR150400BA	Bipolar2SA1504S(ASY) PNP -5V -50V -50V -	AR711	EBC32260501	ArrayMNR04M0APJ000 0OHM 5% 1/16W 4 SMD
Q602	0TR150400BA	Bipolar2SA1504S(ASY) PNP -5V -50V -50V -	AR800	EBC32260405	ArrayMNR04M0APJ680 68OHM 5% 1/16W 4 SM
Q603	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M	AR805	EBC32260405	ArrayMNR04M0APJ680 68OHM 5% 1/16W 4 SM
Q604	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M	AR806	EBC32260405	ArrayMNR04M0APJ680 68OHM 5% 1/16W 4 SM
Q606	0TR150400BA	Bipolar2SA1504S(ASY) PNP -5V -50V -50V -	AR807	EBC32260405	ArrayMNR04M0APJ680 68OHM 5% 1/16W 4 SM
Q607	0TR150400BA	Bipolar2SA1504S(ASY) PNP -5V -50V -50V -	AR808	EBC32260405	ArrayMNR04M0APJ680 68OHM 5% 1/16W 4 SM
Q608	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M	AR809	EBC32260405	ArrayMNR04M0APJ680 68OHM 5% 1/16W 4 SM
Q609	0TR150400BA	Bipolar2SA1504S(ASY) PNP -5V -50V -50V -	AR810	EBC32260405	ArrayMNR04M0APJ680 68OHM 5% 1/16W 4 SM
Q900	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M	L1205	0RJ0000G676	ChipMCR18EZJH000_0OHM 5% 1/4W 3216 R
Q901	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M	L1215	0RJ0000G676	ChipMCR18EZJH000_0OHM 5% 1/4W 3216 R
Q902	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M	R100	0RH0000D622	ChipMCR10EZJH000 0OHM 5% 1/8W 2012 R/
Q903	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M	R100	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
Q904	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M	R101	0RD9101Q609	Carbon FilmRDM94T1J9K10 9.1KOHM 5% 1/4W 3.2X
Q905	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M	R101	0RH0000D622	ChipMCR10EZJH000 0OHM 5% 1/8W 2012 R/
Q906	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M	R101	0RJ0752D677	ChipMCR03EZPJ750 75OHM 5% 1/10W 1608
Q907	0TR387500AA	Bipolar2SC3875S(ALY) NPN 5V 60V 50V 150M	R1016	0RJ0222D677	ChipMCR03EZPJ220 22OHM 5% 1/10W 1608
RESISTORS			R1017	0RJ0222D677	ChipMCR03EZPJ220 22OHM 5% 1/10W 1608
AR100	0RJ0472C687	ArrayRCA86TRJ47R0 47OHM 5% 1/16W 4 SMD	R1018	0RJ6800D677	ChipMCR03EZPJ681 680OHM 5% 1/10W 1608
AR101	0RJ0472C687	ArrayRCA86TRJ47R0 47OHM 5% 1/16W 4 SMD	R1019	0RJ0222D677	ChipMCR03EZPJ220 22OHM 5% 1/10W 1608
AR102	0RJ0472C687	ArrayRCA86TRJ47R0 47OHM 5% 1/16W 4 SMD	R102	0RD3301Q609	Carbon FilmRDM94T1J3K30 3.3KOHM 5% 1/4W 3.2X
AR103	0RJ0472C687	ArrayRCA86TRJ47R0 47OHM 5% 1/16W 4 SMD	R102	0RH1302D622	ChipMCR10EZJH133 13KOHM 5% 1/8W 2012
AR104	0RJ0472C687	ArrayRCA86TRJ47R0 47OHM 5% 1/16W 4 SMD	R102	0RJ4700D677	ChipMCR03EZPJ471 470OHM 5% 1/10W 1608
AR105	0RJ0472C687	ArrayRCA86TRJ47R0 47OHM 5% 1/16W 4 SMD	R102	0RJ0472D677	ChipMCR03EZPJ470 47OHM 5% 1/10W 1608
AR106	0RJ0472C687	ArrayRCA86TRJ47R0 47OHM 5% 1/16W 4 SMD	R1020	0RJ6800D677	ChipMCR03EZPJ681 680OHM 5% 1/10W 1608
AR107	0RJ0472C687	ArrayRCA86TRJ47R0 47OHM 5% 1/16W 4 SMD	R1021	0RJ0222D677	ChipMCR03EZPJ220 22OHM 5% 1/10W 1608
AR108	0RJ0472C687	ArrayRCA86TRJ47R0 47OHM 5% 1/16W 4 SMD	R1022	0RJ0222D677	ChipMCR03EZPJ220 22OHM 5% 1/10W 1608
AR109	0RJ0472C687	ArrayRCA86TRJ47R0 47OHM 5% 1/16W 4 SMD	R1023	0RJ0222D677	ChipMCR03EZPJ220 22OHM 5% 1/10W 1608
AR110	0RJ0472C687	ArrayRCA86TRJ47R0 47OHM 5% 1/16W 4 SMD	R103	0RD1101Q609	Carbon FilmRDM94T1J1K10 1.1KOHM 5% 1/4W 3.2X
AR111	0RJ0472C687	ArrayRCA86TRJ47R0 47OHM 5% 1/16W 4 SMD	R103	0RH0000D622	ChipMCR10EZJH000 0OHM 5% 1/8W 2012 R/
AR200	0RJ0222C687	ArrayRCA86TRJ22R0 22OHM 5% 1/16W 4 SMD	R103	0RJ2203D677	ChipMCR03EZPJ224 220KOHM 5% 1/10W 160
AR201	0RJ0222C687	ArrayRCA86TRJ22R0 22OHM 5% 1/16W 4 SMD	R103	0RJ0472D677	ChipMCR03EZPJ470 47OHM 5% 1/10W 1608
AR202	0RJ0222C687	ArrayRCA86TRJ22R0 22OHM 5% 1/16W 4 SMD	R1038	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
AR203	0RJ0222C687	ArrayRCA86TRJ22R0 22OHM 5% 1/16W 4 SMD	R1039	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
			R104	0RD1100Q609	Carbon FilmRDM94T1J110R 110OHM 5% 1/4W 3.2X1
			R104	0RH2002D622	ChipMCR10EZJH203 20KOHM 5% 1/8W 2012

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R104	0RJ4700D677	ChipMCR03EZPJ471 470OHM 5% 1/10W 1608	R1128	0RJ0222D677	ChipMCR03EZPJ220 220OHM 5% 1/10W 1608
R1040	0RJ4702D677	ChipMCR03EZPJ473 47KOHM 5% 1/10W 1608	R1129	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R1041	0RJ4702D677	ChipMCR03EZPJ473 47KOHM 5% 1/10W 1608	R113	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R1042	0RJ4702D677	ChipMCR03EZPJ473 47KOHM 5% 1/10W 1608	R1130	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R1043	0RJ4702D677	ChipMCR03EZPJ473 47KOHM 5% 1/10W 1608	R1131	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R1044	0RJ3301D677	ChipMCR03EZPJ332 3.3KOHM 5% 1/10W 160	R1133	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R1049	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R	R1134	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R105	0RD9101Q609	Carbon FilmRDM94T1J9K10 9.1KOHM 5% 1/4W 3.2X	R1135	0RJ1001D677	ChipMCR03EZPJ102 1KOHM 5% 1/10W 1608
R105	0RH0000D622	ChipMCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R1136	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R105	0RJ4701D677	ChipMCR03EZPJ472 4.7KOHM 5% 1/10W 160	R1137	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R105	0RJ2203D677	ChipMCR03EZPJ224 220KOHM 5% 1/10W 160	R1139	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R1050	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R	R114	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R1052	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R	R1140	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R1053	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R	R1141	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R1056	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608	R1148	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R1057	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608	R1150	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R1058	0RJ1003D677	ChipMCR03EZPJ104 100KOHM 5% 1/10W 160	R1151	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R1059	0RJ2702D677	ChipMCR03EZPJ273 27KOHM 5% 1/10W 1608	R1152	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R106	0RD3301Q609	Carbon FilmRDM94T1J3K30 3.3KOHM 5% 1/4W 3.2X	R1157	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R106	0RH0000D622	ChipMCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R1158	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R106	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R	R1161	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R106	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R	R1162	0RJ4701D677	ChipMCR03EZPJ472 4.7KOHM 5% 1/10W 160
R1060	0RJ3302D677	ChipMCR03EZPJ333 33KOHM 5% 1/10W 1608	R1164	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R1061	0RJ3302D677	ChipMCR03EZPJ333 33KOHM 5% 1/10W 1608	R1165	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R1065	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R	R1166	0RJ3301D677	ChipMCR03EZPJ332 3.3KOHM 5% 1/10W 160
R107	0RD1101Q609	Carbon FilmRDM94T1J1K10 1.1KOHM 5% 1/4W 3.2X	R1167	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R107	0RJ0752D677	ChipMCR03EZPJ750 75OHM 5% 1/10W 1608	R1168	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R108	0RD1100Q609	Carbon FilmRDM94T1J110R 110OHM 5% 1/4W 3.2X1	R1169	0RJ1001D677	ChipMCR03EZPJ102 1KOHM 5% 1/10W 1608
R108	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R	R1170	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R109	0RJ0752D677	ChipMCR03EZPJ750 75OHM 5% 1/10W 1608	R1171	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R110	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R	R1185	0RH0000D622	ChipMCR10EZHJ000 0OHM 5% 1/8W 2012 R/
R110	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608	R1186	0RH0000D622	ChipMCR10EZHJ000 0OHM 5% 1/8W 2012 R/
R1101	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608	R119	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R1102	0RJ1001D677	ChipMCR03EZPJ102 1KOHM 5% 1/10W 1608	R120	0RJ1802D677	ChipMCR03EZPJ183 18KOHM 5% 1/10W 1608
R1103	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608	R1200	0RJ0752D677	ChipMCR03EZPJ750 75OHM 5% 1/10W 1608
R1104	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R	R1201	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R1107	0RJ4701D677	ChipMCR03EZPJ472 4.7KOHM 5% 1/10W 160	R1202	0RJ0682D677	ChipMCR03EZPJ680 68OHM 5% 1/10W 1608
R1108	0RJ4701D677	ChipMCR03EZPJ472 4.7KOHM 5% 1/10W 160	R1203	0RJ4703D677	ChipMCR03EZPJ474 470KOHM 5% 1/10W 160
R111	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608	R1204	0RJ4702D677	ChipMCR03EZPJ473 47KOHM 5% 1/10W 1608
R1113	0RJ0752D677	ChipMCR03EZPJ750 75OHM 5% 1/10W 1608	R1205	0RJ2203D677	ChipMCR03EZPJ224 220KOHM 5% 1/10W 160
R1114	0RJ2203D677	ChipMCR03EZPJ224 220KOHM 5% 1/10W 160	R1207	0RJ2203D677	ChipMCR03EZPJ224 220KOHM 5% 1/10W 160
R1115	0RJ0752D677	ChipMCR03EZPJ750 75OHM 5% 1/10W 1608	R1209	0RJ3002D677	ChipMCR03EZPJ303 30KOHM 5% 1/10W 1608
R1116	0RJ2203D677	ChipMCR03EZPJ224 220KOHM 5% 1/10W 160	R121	0RJ1202D677	ChipMCR03EZPJ123 12KOHM 5% 1/10W 1608
R1117	0RJ0752D677	ChipMCR03EZPJ750 75OHM 5% 1/10W 1608	R1210	0RJ2203D677	ChipMCR03EZPJ224 220KOHM 5% 1/10W 160
R1118	0RJ1001D677	ChipMCR03EZPJ102 1KOHM 5% 1/10W 1608	R1211	0RJ4703D677	ChipMCR03EZPJ474 470KOHM 5% 1/10W 160
R1119	0RJ1001D677	ChipMCR03EZPJ102 1KOHM 5% 1/10W 1608	R1212	0RJ2203D677	ChipMCR03EZPJ224 220KOHM 5% 1/10W 160
R112	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608	R1213	0RJ4703D677	ChipMCR03EZPJ474 470KOHM 5% 1/10W 160
R1120	0RJ4701D677	ChipMCR03EZPJ472 4.7KOHM 5% 1/10W 160	R1214	0RJ0752D677	ChipMCR03EZPJ750 75OHM 5% 1/10W 1608
R1121	0RJ1001D677	ChipMCR03EZPJ102 1KOHM 5% 1/10W 1608	R1215	0RJ1001D477	ChipMCR03EZPF102 1KOHM 1% 1/10W 1608
R1122	0RJ4701D677	ChipMCR03EZPJ472 4.7KOHM 5% 1/10W 160	R1216	0RJ1001D477	ChipMCR03EZPF102 1KOHM 1% 1/10W 1608
R1123	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R	R1219	0RJ0752D677	ChipMCR03EZPJ750 75OHM 5% 1/10W 1608
R1124	0RJ0222D677	ChipMCR03EZPJ220 220OHM 5% 1/10W 1608	R122	0RJ0472D677	ChipMCR03EZPJ470 470OHM 5% 1/10W 1608
R1125	0RJ0222D677	ChipMCR03EZPJ220 220OHM 5% 1/10W 1608	R1220	0RJ2203D677	ChipMCR03EZPJ224 220KOHM 5% 1/10W 160
R1126	0RJ1001D677	ChipMCR03EZPJ102 1KOHM 5% 1/10W 1608	R1221	0RJ0752D677	ChipMCR03EZPJ750 75OHM 5% 1/10W 1608
R1127	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R	R1222	0RJ0752D677	ChipMCR03EZPJ750 75OHM 5% 1/10W 1608

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R1223	0RJ2203D677	ChipMCR03EZPJ224 220KOHM 5% 1/10W 160	R1300	0RJ6202D677	ChipMCR03EZPJ623 62KOHM 5% 1/10W 1608
R1224	0RJ1001D677	ChipMCR03EZPJ102 1KOHM 5% 1/10W 1608	R1301	0RJ2402D677	ChipMCR03EZPJ243 24KOHM 5% 1/10W 1608
R1225	0RJ1001D477	ChipMCR03EZPF102 1KOHM 1% 1/10W 1608	R1302	0RJ4700D677	ChipMCR03EZPJ471 470OHM 5% 1/10W 1608
R1226	0RJ1001D477	ChipMCR03EZPF102 1KOHM 1% 1/10W 1608	R1303	0RJ1501D677	ChipMCR03EZPJ152 1.5KOHM 5% 1/10W 160
R1227	0RJ2201D477	ChipMCR03EZPF222 2.2KOHM 1% 1/10W 160	R1304	0RJ0432D677	ChipMCR03EZPJ430 430OHM 5% 1/10W 1608
R1228	0RJ2201D477	ChipMCR03EZPF222 2.2KOHM 1% 1/10W 160	R1305	0RJ0432D677	ChipMCR03EZPJ430 430OHM 5% 1/10W 1608
R1229	0RJ0752D677	ChipMCR03EZPJ750 75OHM 5% 1/10W 1608	R1307	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R123	0RJ0472C678	ChipMCR01MZPJ470 470OHM 5% 1/16W 1005	R1308	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R1230	0RJ0752D677	ChipMCR03EZPJ750 75OHM 5% 1/10W 1608	R1309	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R1231	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608	R131	0RJ0472D677	ChipMCR03EZPJ470 470OHM 5% 1/10W 1608
R1235	0RJ4703D677	ChipMCR03EZPJ474 470KOHM 5% 1/10W 160	R1310	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R1236	0RJ4703D677	ChipMCR03EZPJ474 470KOHM 5% 1/10W 160	R1311	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R1237	0RJ1001D477	ChipMCR03EZPF102 1KOHM 1% 1/10W 1608	R1312	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R1238	0RJ1001D477	ChipMCR03EZPF102 1KOHM 1% 1/10W 1608	R1313	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R1239	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R	R1314	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R124	0RJ1200C678	ChipMCR01MZPJ121 120OHM 5% 1/16W 1005	R1315	0RJ1001D677	ChipMCR03EZPJ102 1KOHM 5% 1/10W 1608
R1240	0RJ0752D677	ChipMCR03EZPJ750 75OHM 5% 1/10W 1608	R1316	0RJ1001D677	ChipMCR03EZPJ102 1KOHM 5% 1/10W 1608
R1241	0RJ0752D677	ChipMCR03EZPJ750 75OHM 5% 1/10W 1608	R1317	0RJ4701D677	ChipMCR03EZPJ472 4.7KOHM 5% 1/10W 160
R1242	0RJ0752D677	ChipMCR03EZPJ750 75OHM 5% 1/10W 1608	R1318	0RJ4701D677	ChipMCR03EZPJ472 4.7KOHM 5% 1/10W 160
R1243	0RJ0752D677	ChipMCR03EZPJ750 75OHM 5% 1/10W 1608	R1319	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R1244	0RJ0752D677	ChipMCR03EZPJ750 75OHM 5% 1/10W 1608	R1320	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
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R125	0RJ0472D677	ChipMCR03EZPJ470 470OHM 5% 1/10W 1608	R1322	0RJ2001D677	ChipMCR03EZPJ202 2KOHM 5% 1/10W 1608
R1259	0RJ1001D677	ChipMCR03EZPJ102 1KOHM 5% 1/10W 1608	R1323	0RJ4703D677	ChipMCR03EZPJ474 470KOHM 5% 1/10W 160
R126	0RJ0472D677	ChipMCR03EZPJ470 470OHM 5% 1/10W 1608	R1324	0RJ4703D677	ChipMCR03EZPJ474 470KOHM 5% 1/10W 160
R1260	0RJ2001D677	ChipMCR03EZPJ202 2KOHM 5% 1/10W 1608	R1327	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R1261	0RJ2001D677	ChipMCR03EZPJ202 2KOHM 5% 1/10W 1608	R1328	0RJ2200D677	ChipMCR03EZPJ221 220OHM 5% 1/10W 1608
R1262	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R	R1329	0RJ0101D677	ChipMCR03EZPJ1R0 1OHM 5% 1/10W 1608 R
R1263	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R	R133	0RJ0472D677	ChipMCR03EZPJ470 470OHM 5% 1/10W 1608
R1264	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R	R1330	0RJ0101D677	ChipMCR03EZPJ1R0 1OHM 5% 1/10W 1608 R
R1270	0RJ1001D677	ChipMCR03EZPJ102 1KOHM 5% 1/10W 1608	R1331	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R1271	0RJ1001D677	ChipMCR03EZPJ102 1KOHM 5% 1/10W 1608	R1332	0RJ2200D677	ChipMCR03EZPJ221 220OHM 5% 1/10W 1608
R1273	0RJ3301D677	ChipMCR03EZPJ332 3.3KOHM 5% 1/10W 160	R1333	0RJ2200D677	ChipMCR03EZPJ221 220OHM 5% 1/10W 1608
R1274	0RJ0752D677	ChipMCR03EZPJ750 75OHM 5% 1/10W 1608	R1334	0RJ2200D677	ChipMCR03EZPJ221 220OHM 5% 1/10W 1608
R1275	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R	R1338	0RJ3901D677	ChipMCR03EZPJ392 3.9KOHM 5% 1/10W 160
R1276	0RJ3002D677	ChipMCR03EZPJ303 30KOHM 5% 1/10W 1608	R134	0RJ0472D677	ChipMCR03EZPJ470 470OHM 5% 1/10W 1608
R1277	0RJ2203D677	ChipMCR03EZPJ224 220KOHM 5% 1/10W 160	R1345	0RJ4701D677	ChipMCR03EZPJ472 4.7KOHM 5% 1/10W 160
R1278	0RJ2203D677	ChipMCR03EZPJ224 220KOHM 5% 1/10W 160	R1346	0RJ4701D677	ChipMCR03EZPJ472 4.7KOHM 5% 1/10W 160
R1279	0RJ4702D677	ChipMCR03EZPJ473 47KOHM 5% 1/10W 1608	R1347	0RJ0392D677	ChipMCR03EZPJ390 39OHM 5% 1/10W 1608
R128	0RJ0472D677	ChipMCR03EZPJ470 470OHM 5% 1/10W 1608	R1348	0RJ0392D677	ChipMCR03EZPJ390 39OHM 5% 1/10W 1608
R1280	0RJ1001D677	ChipMCR03EZPJ102 1KOHM 5% 1/10W 1608	R1349	0RJ0392D677	ChipMCR03EZPJ390 39OHM 5% 1/10W 1608
R1281	0RJ1001D677	ChipMCR03EZPJ102 1KOHM 5% 1/10W 1608	R1350	0RJ0392D677	ChipMCR03EZPJ390 39OHM 5% 1/10W 1608
R1282	0RJ2203D677	ChipMCR03EZPJ224 220KOHM 5% 1/10W 160	R1351	0RJ0122D677	ChipMCR03EZPJ120 12OHM 5% 1/10W 1608
R1283	0RJ2203D677	ChipMCR03EZPJ224 220KOHM 5% 1/10W 160	R1352	0RJ0122D677	ChipMCR03EZPJ120 12OHM 5% 1/10W 1608
R1284	0RH0000D622	ChipMCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R1353	0RJ0122D677	ChipMCR03EZPJ120 12OHM 5% 1/10W 1608
R1285	0RH0000D622	ChipMCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R1354	0RJ0122D677	ChipMCR03EZPJ120 12OHM 5% 1/10W 1608
R1286	0RH0000D622	ChipMCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R1355	0RJ0122D677	ChipMCR03EZPJ120 12OHM 5% 1/10W 1608
R1287	0RH0000D622	ChipMCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R1356	0RJ0122D677	ChipMCR03EZPJ120 12OHM 5% 1/10W 1608
R1288	0RH0000D622	ChipMCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R1357	0RJ0122D677	ChipMCR03EZPJ120 12OHM 5% 1/10W 1608
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R129	0RJ0472D677	ChipMCR03EZPJ470 470OHM 5% 1/10W 1608	R1359	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R1290	0RH0000D622	ChipMCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R136	0RJ0472C678	ChipMCR01MZPJ470 470OHM 5% 1/16W 1005
R1291	0RH0000D622	ChipMCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R1360	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R1292	0RH0000D622	ChipMCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R1361	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R1293	0RH0000D622	ChipMCR10EZHJ000 0OHM 5% 1/8W 2012 R/	R1362	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R1363	0RD3301A609	Carbon FilmRDM92T1J3K30 3.3KOHM 5% 1/2W 6.5X	R1466	0RJ1201C678	ChipMCR01MZPJ122 1.2KOHM 5% 1/16W 100
R1364	0RJ7500D677	ChipMCR03EZPJ751 750OHM 5% 1/10W 1608	R1467	0RJ1001D677	ChipMCR03EZPJ102 1KOHM 5% 1/10W 1608
R1365	0RJ7500D677	ChipMCR03EZPJ751 750OHM 5% 1/10W 1608	R1468	0RJ1201C678	ChipMCR01MZPJ122 1.2KOHM 5% 1/16W 100
R1366	0RJ7500D677	ChipMCR03EZPJ751 750OHM 5% 1/10W 1608	R1469	0RH0000D622	ChipMCR10EZHJ000 0OHM 5% 1/8W 2012 R/
R1367	0RJ0000G676	ChipMCR18EZHJ000_0OHM 5% 1/4W 3216 R	R147	0RJ0472D677	ChipMCR03EZPJ470 470OHM 5% 1/10W 1608
R137	0RJ0472D677	ChipMCR03EZPJ470 470OHM 5% 1/10W 1608	R1470	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R138	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608	R1471	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R139	0RJ0472D677	ChipMCR03EZPJ470 470OHM 5% 1/10W 1608	R1472	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R140	0RJ0472D677	ChipMCR03EZPJ470 470OHM 5% 1/10W 1608	R1473	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R1400	0RJ1501D677	ChipMCR03EZPJ152 1.5KOHM 5% 1/10W 160	R1474	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R1401	0RJ4701D677	ChipMCR03EZPJ472 4.7KOHM 5% 1/10W 160	R1475	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R1402	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608	R1476	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R1403	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608	R1477	0RH0000D622	ChipMCR10EZHJ000 0OHM 5% 1/8W 2012 R/
R1404	0RJ1001D677	ChipMCR03EZPJ102 1KOHM 5% 1/10W 1608	R1478	0RH0000D622	ChipMCR10EZHJ000 0OHM 5% 1/8W 2012 R/
R1405	0RJ1001D677	ChipMCR03EZPJ102 1KOHM 5% 1/10W 1608	R148	0RJ0472D677	ChipMCR03EZPJ470 470OHM 5% 1/10W 1608
R1406	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R	R149	0RJ2701D677	ChipMCR03EZPJ272 2.7KOHM 5% 1/10W 160
R1407	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R	R150	0RJ0472D677	ChipMCR03EZPJ470 470OHM 5% 1/10W 1608
R1408	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R	R151	0RJ0472C678	ChipMCR01MZPJ470 470OHM 5% 1/16W 1005
R1409	0RJ1500D677	ChipMCR03EZPJ151 150OHM 5% 1/10W 1608	R152	0RJ0472D677	ChipMCR03EZPJ470 470OHM 5% 1/10W 1608
R1410	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R	R153	0RJ0472C678	ChipMCR01MZPJ470 470OHM 5% 1/16W 1005
R1411	0RJ2200D677	ChipMCR03EZPJ221 220OHM 5% 1/10W 1608	R154	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R1412	0RJ2200D677	ChipMCR03EZPJ221 220OHM 5% 1/10W 1608	R155	0RJ3303D677	ChipMCR03EZPJ334 330KOHM 5% 1/10W 160
R1413	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R	R157	0RJ0472D677	ChipMCR03EZPJ470 470OHM 5% 1/10W 1608
R1414	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608	R1607	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
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R1417	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608	R162	0RJ0472D677	ChipMCR03EZPJ470 470OHM 5% 1/10W 1608
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R142	0RJ0472D677	ChipMCR03EZPJ470 470OHM 5% 1/10W 1608	R165	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R1420	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608	R166	0RJ0472D677	ChipMCR03EZPJ470 470OHM 5% 1/10W 1608
R1421	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608	R167	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R1422	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608	R168	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R1423	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608	R169	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R1429	0RJ1001C678	ChipMCR01MZPJ102 1KOHM 5% 1/16W 1005	R170	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R143	0RJ2701D677	ChipMCR03EZPJ272 2.7KOHM 5% 1/10W 160	R1703	0RJ1000C678	ChipMCR01MZPJ101 100OHM 5% 1/16W 1005
R1430	0RJ1201C678	ChipMCR01MZPJ122 1.2KOHM 5% 1/16W 100	R1704	0RJ1000C678	ChipMCR01MZPJ101 100OHM 5% 1/16W 1005
R1431	0RJ1201C678	ChipMCR01MZPJ122 1.2KOHM 5% 1/16W 100	R1706	0RJ0332C678	ChipMCR01MZPJ330 330OHM 5% 1/16W 1005
R1433	0RJ1000C678	ChipMCR01MZPJ101 100OHM 5% 1/16W 1005	R1708	0RJ0332D677	ChipMCR03EZPJ330 330OHM 5% 1/10W 1608
R1436	0RJ1201C678	ChipMCR01MZPJ122 1.2KOHM 5% 1/16W 100	R1709	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R1438	0RJ1201C678	ChipMCR01MZPJ122 1.2KOHM 5% 1/16W 100	R1710	0RJ0222C678	ChipMCR01MZPJ220 220OHM 5% 1/16W 1005
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R144	0RJ0472D677	ChipMCR03EZPJ470 470OHM 5% 1/10W 1608	R1714	0RJ0000C678	ChipMCR01MZPJ000 0OHM 5% 1/16W 1005 R
R145	0RJ2701D677	ChipMCR03EZPJ272 2.7KOHM 5% 1/10W 160	R1715	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
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R1454	0RJ4703D677	ChipMCR03EZPJ474 470KOHM 5% 1/10W 160	R1718	0RJ1000C678	ChipMCR01MZPJ101 100OHM 5% 1/16W 1005
R1455	0RJ4701D677	ChipMCR03EZPJ472 4.7KOHM 5% 1/10W 160	R1719	0RJ0332D677	ChipMCR03EZPJ330 330OHM 5% 1/10W 1608
R1456	0RJ1501D677	ChipMCR03EZPJ152 1.5KOHM 5% 1/10W 160	R1720	0RJ1000C678	ChipMCR01MZPJ101 100OHM 5% 1/16W 1005
R146	0RJ2701D677	ChipMCR03EZPJ272 2.7KOHM 5% 1/10W 160	R1721	0RJ4701D677	ChipMCR03EZPJ472 4.7KOHM 5% 1/10W 160
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R1461	0RJ1000C678	ChipMCR01MZPJ101 100OHM 5% 1/16W 1005	R1724	0RJ0332C678	ChipMCR01MZPJ330 330OHM 5% 1/16W 1005
R1462	0RJ1000C678	ChipMCR01MZPJ101 100OHM 5% 1/16W 1005	R1726	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R1463	0RJ1003D677	ChipMCR03EZPJ104 100KOHM 5% 1/10W 160	R1727	0RJ0332D677	ChipMCR03EZPJ330 330OHM 5% 1/10W 1608
R1465	0RJ1000C678	ChipMCR01MZPJ101 100OHM 5% 1/16W 1005	R1728	0RJ0332D677	ChipMCR03EZPJ330 330OHM 5% 1/10W 1608

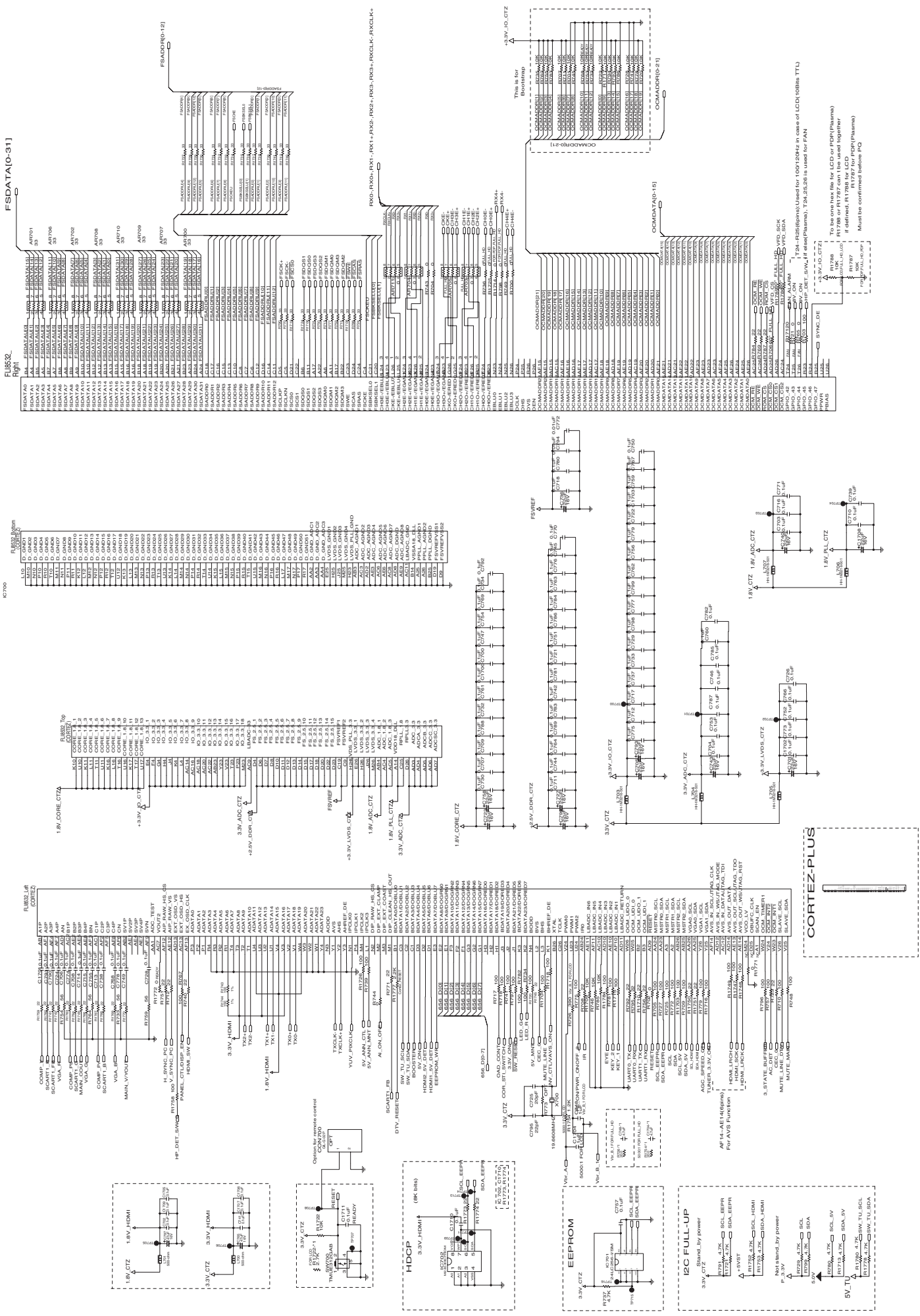
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R247	0RJ0222D677	ChipMCR03EZPJ220 22OHM 5% 1/10W 1608	R526	0RJ2001D677	ChipMCR03EZPJ202 2KOHM 5% 1/10W 1608
R248	0RJ0222D677	ChipMCR03EZPJ220 22OHM 5% 1/10W 1608	R527	0RJ2001D677	ChipMCR03EZPJ202 2KOHM 5% 1/10W 1608
R249	0RJ0222C678	ChipMCR01MZPJ220 22OHM 5% 1/16W 1005	R528	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R250	0RJ0222C678	ChipMCR01MZPJ220 22OHM 5% 1/16W 1005	R531	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R251	0RJ0222D677	ChipMCR03EZPJ220 22OHM 5% 1/10W 1608	R534	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R255	0RJ4701D477	ChipMCR03EZPF472 4.7KOHM 1% 1/10W 160	R536	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R256	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608	R537	0RJ1502D677	ChipMCR03EZPJ153 15KOHM 5% 1/10W 1608
R257	0RJ0222D677	ChipMCR03EZPJ220 22OHM 5% 1/10W 1608	R539	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R258	0RJ0222D677	ChipMCR03EZPJ220 22OHM 5% 1/10W 1608	R540	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R259	0RJ0222D677	ChipMCR03EZPJ220 22OHM 5% 1/10W 1608	R541	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R260	0RJ0222D677	ChipMCR03EZPJ220 22OHM 5% 1/10W 1608	R543	0RJ1502D677	ChipMCR03EZPJ153 15KOHM 5% 1/10W 1608
R301	0RJ0472D677	ChipMCR03EZPJ470 47OHM 5% 1/10W 1608	R544	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R302	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608	R547	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R303	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608	R548	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R304	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608	R550	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R305	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608	R554	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R306	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608	R555	0RJ2202D677	ChipMCR03EZPJ223 22KOHM 5% 1/10W 1608
R309	0RJ0472D677	ChipMCR03EZPJ470 47OHM 5% 1/10W 1608	R556	0RJ4302D677	ChipMCR03EZPJ433 43KOHM 5% 1/10W 1608
R310	0RJ0472D677	ChipMCR03EZPJ470 47OHM 5% 1/10W 1608	R557	0RJ0222D677	ChipMCR03EZPJ220 22OHM 5% 1/10W 1608
R311	0RJ0472D677	ChipMCR03EZPJ470 47OHM 5% 1/10W 1608	R558	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R312	0RJ0472D677	ChipMCR03EZPJ470 47OHM 5% 1/10W 1608	R600	0RJ0332D677	ChipMCR03EZPJ330 33OHM 5% 1/10W 1608
R313	0RJ0472D677	ChipMCR03EZPJ470 47OHM 5% 1/10W 1608	R603	0RJ0332D677	ChipMCR03EZPJ330 33OHM 5% 1/10W 1608
R314	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R	R604	0RJ0332D677	ChipMCR03EZPJ330 33OHM 5% 1/10W 1608
R315	0RJ0472D677	ChipMCR03EZPJ470 47OHM 5% 1/10W 1608	R605	0RJ0332D677	ChipMCR03EZPJ330 33OHM 5% 1/10W 1608
R316	0RJ0472D677	ChipMCR03EZPJ470 47OHM 5% 1/10W 1608	R606	0RJ0332D677	ChipMCR03EZPJ330 33OHM 5% 1/10W 1608
R319	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608	R607	0RJ0332D677	ChipMCR03EZPJ330 33OHM 5% 1/10W 1608
R320	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608	R608	0RJ0332D677	ChipMCR03EZPJ330 33OHM 5% 1/10W 1608
R321	0RJ0472D677	ChipMCR03EZPJ470 47OHM 5% 1/10W 1608	R609	0RJ0332D677	ChipMCR03EZPJ330 33OHM 5% 1/10W 1608
R322	0RJ0472D677	ChipMCR03EZPJ470 47OHM 5% 1/10W 1608	R610	0RJ0332D677	ChipMCR03EZPJ330 33OHM 5% 1/10W 1608
R323	0RJ0472D677	ChipMCR03EZPJ470 47OHM 5% 1/10W 1608	R611	0RJ0332D677	ChipMCR03EZPJ330 33OHM 5% 1/10W 1608
R324	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608	R612	0RJ0332D677	ChipMCR03EZPJ330 33OHM 5% 1/10W 1608
R325	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608	R613	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R326	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608	R624	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R327	0RJ0332D677	ChipMCR03EZPJ330 33OHM 5% 1/10W 1608	R625	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R329	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608	R626	0RJ0332D677	ChipMCR03EZPJ330 33OHM 5% 1/10W 1608
R403	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608	R627	0RJ1003D677	ChipMCR03EZPJ104 100KOHM 5% 1/10W 160
R407	0RJ1202D677	ChipMCR03EZPJ123 12KOHM 5% 1/10W 1608	R629	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R412	0RJ0472D677	ChipMCR03EZPJ470 47OHM 5% 1/10W 1608	R632	0RJ0472D677	ChipMCR03EZPJ470 47OHM 5% 1/10W 1608
R413	0RJ0472D677	ChipMCR03EZPJ470 47OHM 5% 1/10W 1608	R633	0RJ0472D677	ChipMCR03EZPJ470 47OHM 5% 1/10W 1608
R414	0RJ1001D677	ChipMCR03EZPJ102 1KOHM 5% 1/10W 1608	R636	0RJ4701D677	ChipMCR03EZPJ472 4.7KOHM 5% 1/10W 160
R415	0RJ1001D677	ChipMCR03EZPJ102 1KOHM 5% 1/10W 1608	R637	0RJ4700D677	ChipMCR03EZPJ471 470OHM 5% 1/10W 1608
R416	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R	R639	0RJ0822D677	ChipMCR03EZPJ820 82OHM 5% 1/10W 1608
R417	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R	R640	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R421	0RJ0472D677	ChipMCR03EZPJ470 47OHM 5% 1/10W 1608	R642	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R422	0RJ4701D677	ChipMCR03EZPJ472 4.7KOHM 5% 1/10W 160	R644	0RJ1001D677	ChipMCR03EZPJ102 1KOHM 5% 1/10W 1608
R437	0RJ0222D677	ChipMCR03EZPJ220 22OHM 5% 1/10W 1608	R646	0RJ2700D677	ChipMCR03EZPJ271 270OHM 5% 1/10W 1608
R438	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R	R647	0RJ2200D677	ChipMCR03EZPJ221 220OHM 5% 1/10W 1608
R439	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608	R648	0RJ1001D677	ChipMCR03EZPJ102 1KOHM 5% 1/10W 1608
R441	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608	R649	0RJ1500D677	ChipMCR03EZPJ151 150OHM 5% 1/10W 1608
R446	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608	R650	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R448	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608	R651	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R521	EBC32306001	ChipMCR03EZP5FX9100 910OHM 1% 1/10W 1	R652	0RJ2001D677	ChipMCR03EZPJ202 2KOHM 5% 1/10W 1608
R522	0RJ9311D477	ChipMCR03EZPF9311 9.31KOHM 1% 1/10W 1	R653	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R523	0RJ1001D677	ChipMCR03EZPJ102 1KOHM 5% 1/10W 1608	R654	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R821	0RJ0682C678	ChipMCR01MZPJ680 68OHM 5% 1/16W 1005
R822	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R823	0RJ1500C678	ChipMCR01MZPJ151 150OHM 5% 1/16W 1005
R826	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R827	0RJ0682C678	ChipMCR01MZPJ680 68OHM 5% 1/16W 1005
R829	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R843	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R847	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R848	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R849	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R850	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R860	0RJ0682C678	ChipMCR01MZPJ680 68OHM 5% 1/16W 1005
R877	0RJ0682C678	ChipMCR01MZPJ680 68OHM 5% 1/16W 1005
R880	0RJ0682C678	ChipMCR01MZPJ680 68OHM 5% 1/16W 1005
R881	0RJ0682C678	ChipMCR01MZPJ680 68OHM 5% 1/16W 1005
R882	0RJ0682C678	ChipMCR01MZPJ680 68OHM 5% 1/16W 1005
R883	0RJ0682C678	ChipMCR01MZPJ680 68OHM 5% 1/16W 1005
R884	0RJ0682C678	ChipMCR01MZPJ680 68OHM 5% 1/16W 1005
R885	0RJ0682C678	ChipMCR01MZPJ680 68OHM 5% 1/16W 1005
R886	0RJ0682C678	ChipMCR01MZPJ680 68OHM 5% 1/16W 1005
R888	0RJ0682C678	ChipMCR01MZPJ680 68OHM 5% 1/16W 1005
R891	0RJ0682C678	ChipMCR01MZPJ680 68OHM 5% 1/16W 1005
R892	0RJ0682C678	ChipMCR01MZPJ680 68OHM 5% 1/16W 1005
R900	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R901	0RJ1002D477	ChipMCR03EZPF103 10KOHM 1% 1/10W 1608
R902	0RJ2002D477	ChipMCR03EZPF203 20KOHM 1% 1/10W 1608
R911	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R913	0RJ3302D677	ChipMCR03EZPJ333 33KOHM 5% 1/10W 1608
R915	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R916	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R917	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R918	0RJ3302D677	ChipMCR03EZPJ333 33KOHM 5% 1/10W 1608
R919	0RJ3302D677	ChipMCR03EZPJ333 33KOHM 5% 1/10W 1608
R920	0RJ3302D677	ChipMCR03EZPJ333 33KOHM 5% 1/10W 1608
R923	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R924	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R925	0RJ3302D677	ChipMCR03EZPJ333 33KOHM 5% 1/10W 1608
R926	0RJ3302D677	ChipMCR03EZPJ333 33KOHM 5% 1/10W 1608
R927	0RJ4701D677	ChipMCR03EZPJ472 4.7KOHM 5% 1/10W 160
R930	0RJ3302D677	ChipMCR03EZPJ333 33KOHM 5% 1/10W 1608
R931	0RJ1000D677	ChipMCR03EZPJ101 100OHM 5% 1/10W 1608
R932	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R933	0RJ1002D677	ChipMCR03EZPJ103 10KOHM 5% 1/10W 1608
R934	0RJ3302D677	ChipMCR03EZPJ333 33KOHM 5% 1/10W 1608
R935	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R936	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R937	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R938	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R939	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
R940	0RJ0000D677	ChipMCR03EZPJ000 0OHM 5% 1/10W 1608 R
HARNESSs & CONNECTORS		
C1	6631900012C	Harness, SMH250 SMH250 200mM 2.50MM 10P UL
C2	6631900018K	Harness, 3P(2.5MM) SMH250 TERMINAL 600mM 2

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
C3	6631900027C	Harness, SMH250 SMH250 200mM 2.50MM 13P UL
C4	6631900050A	Harness, SMH200 SMH200 300mM 2.00MM 10P UL
C5	6631900099C	Harness, SMH250 SMP250 400mM 2.50MM 3P UL1
C6	6631900100D	Harness, SMH250 SMP250 600mM 2.50MM 4P UL1
C7	6631900108C	Harness, SMH200 SMH200 350mM 2.00MM 6P UL1
C8	6631T25024N	Harness, 6631T25024N SMH250 35097_35098 26
C9	6631T39004D	Harness, 6631T39004D 1-1123722-9 1-1123722
C10	6631V12031F	Harness, 12505HS-0400 12505HS-0400 350mM 1
C11	6631V39013N	Harness, 1-1123722-8 1-1123722-8 900mM 3.9
C12	EAD35664301	Harness, SMH200(900MM) SMH200-14(YEONHO) S
C13	EAD35682502	Harness, LVDS PDP STANDARD FI-X30HL(JAE) F
J1100	6630G70016A	A03-7071-094 D-SUB 15P 2.29MM STR
J1102	6630G70017A	A02-0915-101 D-SUB 9P 2.77MM STRA
CN100	6602T20009J	Wafer, SMAW200-10P 10P 2.00MM 1R ANGLE D
CN101	6602T20009E	Wafer, SMAW200-06P 6P 2.00MM 1R ANGLE DI
CN300	6630VE01269	Wafer, 91932-31169LF 68P 1.00MM 1R STRAI
CW1	6630V90142A	Wafer, TPH254-R-1419-6A 6P 2.54MM 2R ANG
P100	6602T20009E	Wafer, SMAW200-06P 6P 2.00MM 1R ANGLE DI
P101	6602T20009N	Wafer, SMAW200-14P 14P 2.00MM 1R ANGLE D
P1101	6602T20008J	Wafer, SMW200-10P 10P 2.00MM 1R STRAIGHT
P1102	6630VF00704	Wafer, 12505WS-04A00 4P 1.25MM 1R STRAIG
P1300	6602T25008B	Wafer, SMW250-03P 3P 2.50MM 1R STRAIGHT
P1301	6602T25008C	Wafer, SMW250-04P 4P 2.50MM 1R STRAIGHT
P1400	6602T20008N	Wafer, SMW200-14P 14P 2.00MM 1R STRAIGHT
P800	6630V90116A	Wafer, FI-X30SSL-HF 30P 1.00MM 1R ANGLE
P900	6602T25008M	Wafer, SMW250-13P 13P 2.50MM 1R STRAIGHT
P901	6602T25008J	Wafer, SMW250-10P 10P 2.50MM 1R ANGLE DI
JACKs		
J1000	6612B00015B	DINDC1R019WDH SOCKET 21P STRAIGHT SM
J1001	6612B00015B	DINDC1R019WDH SOCKET 21P STRAIGHT SM
J1101	6612F00099A	PhonePEJ024-01 1P 4P STRAIGHT TR 3.6MM
J1200	6612M00010A	ScartPSC003-01 21P 21P/1C 3.81MM STRAI
J1201	6612M00010A	ScartPSC003-01 21P 21P/1C 3.81MM STRAI
J1203	6612J10031B	RCAPPJ209-01 14.0MM 1RX3C ANGLE BK S
J600	6612J10023A	RCAKCN-BT-0-0053 10.5MM/11.5MM 1RX1C
JK1	6612BBBHN4D	Fiber OpticTOTX177 3P TX 2.54MM ANGLE 15MBPS
JK100	6612J10033A	ComplexPMJ016-13 13P DIN/RCA 14MM ANGLE
SWITCHs		
SW100	EBF32593901	TactTMUE312GAB 1C1P 12VDC 0.5A VERTIC
SW101	140-313B	TactKPT-1115AM 1C1P 12VDC 0.05A HORIZ
SW102	140-313B	TactKPT-1115AM 1C1P 12VDC 0.05A HORIZ
SW103	140-313B	TactKPT-1115AM 1C1P 12VDC 0.05A HORIZ
SW104	140-313B	TactKPT-1115AM 1C1P 12VDC 0.05A HORIZ
SW105	140-313B	TactKPT-1115AM 1C1P 12VDC 0.05A HORIZ
SW106	140-313B	TactKPT-1115AM 1C1P 12VDC 0.05A HORIZ
SW107	140-313B	TactKPT-1115AM 1C1P 12VDC 0.05A HORIZ
SW108	140-313B	TactKPT-1115AM 1C1P 12VDC 0.05A HORIZ
SW700	EBF32593901	TactTMUE312GAB 1C1P 12VDC 0.5A VERTIC

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
OTHERs					
B1	3890TKD002P	Box, LB500J(PCB) BRAND 542*397*445			
B2	MAY32943803	Box, DW3 1088 150 350 NO PRINTING 42PC5			
B3	MAY34392901	Box, DW3 1104 850 370 2 COLOR 42PC5			
IC100	6712000013A	Receiver Module, TSOP4438SO1 4.5TO5.5V 1.5MA 35M			
IC201	SAA30310941	S/W, Firmware 4.13 7A58 Europass3 ST F/W Update			
IC802	SAA30310827	S/W, Firmware 5.01 40B4 EUROPASS3 Basic Cortez			
P300	EAG34998901	Socket, PCI 10074998-118MCALF 68P 1.27MM			
TU600	EBL32961502	Tuner, Digital TDFC-G106P DVB-T/PAL 170MHZ			
ACCESSORY					
A1	SAC30033609	Title, CD MANUAL PDP DTV Europass 3			
A1	MFL34441603	Manual, Owners LG EU 27 LANGAGES SIMPLE BOOK			
A2	MKJ32022813	Remote Controller, COMPLEX EUROPASS_DVB			
A21	3550V00590A	Cover, MOLD ABS BATTERY TN-50PY20 ABS 6710V00142			
A3	6410TEW010A	Power Cord, CEE,LP-34A&H05VV.. 1.87M_BLK CKD			
A3	6410TBW004A	Power Cord, LP-61L+GFC18N+<B90A.. 1.87M_BLK CKD			
A3	EAD36223101	Power Cord, LP34A+LS60L LP-34A 1.87M BLACK SKD			
A3	EAD36430001	Power Cord, LP-61L + LS-60L LP-61L 1.87M BLACK SKD			
A4	4972V00178A	Supporter, COMPLEX METAL ASSY PDP SET			
A5	3880TKZ004D	Bag, COMPLEX VINYL 200*200 0.58 H&C MODEL			
A6	4950TKA320A	Plate, PRESS SBHG T1.2 SUPPORT UPSET			
A7	FAB30021701	Screw,Machine 1SZZVMR001A RING WALL 5MM 25MM			

7. CORTEZ_PLUS



[illegible][illegible]

The diagram illustrates the connection of various CI modules to the main system. The central component is the 9180-9180F module, which is connected to multiple CI modules (CI-001 to CI-008) and a CI-009 module. The diagram also shows the connection of a CI-010 module to the main system. The diagram is labeled 'CI OPTIONS(UK)' and includes a detailed pinout for the CI-001 module.

The schematic diagram illustrates the internal circuitry of the IC1000 and IC1001 CMOS 0201T receivers. It shows the connection of various pins to external components, including resistors (R1058, R1059, R1060, R1061, R1062, R1063, R1064, R1065, R1066, R1067, R1068, R1069, R1070, R1071, R1072, R1073, R1074, R1075, R1076, R1077, R1078, R1079, R1080, R1081, R1082, R1083, R1084, R1085, R1086, R1087, R1088, R1089, R1090, R1091, R1092, R1093, R1094, R1095, R1096, R1097, R1098, R1099, R1100, R1101, R1102, R1103, R1104, R1105, R1106, R1107, R1108, R1109, R1110, R1111, R1112, R1113, R1114, R1115, R1116, R1117, R1118, R1119, R1120, R1121, R1122, R1123, R1124, R1125, R1126, R1127, R1128, R1129, R1130, R1131, R1132, R1133, R1134, R1135, R1136, R1137, R1138, R1139, R1140, R1141, R1142, R1143, R1144, R1145, R1146, R1147, R1148, R1149, R1150, R1151, R1152, R1153, R1154, R1155, R1156, R1157, R1158, R1159, R1160, R1161, R1162, R1163, R1164, R1165, R1166, R1167, R1168, R1169, R1170, R1171, R1172, R1173, R1174, R1175, R1176, R1177, R1178, R1179, R1180, R1181, R1182, R1183, R1184, R1185, R1186, R1187, R1188, R1189, R1190, R1191, R1192, R1193, R1194, R1195, R1196, R1197, R1198, R1199, R1200, R1201, R1202, R1203, R1204, R1205, R1206, R1207, R1208, R1209, R1210, R1211, R1212, R1213, R1214, R1215, R1216, R1217, R1218, R1219, R1220, R1221, R1222, R1223, R1224, R1225, R1226, R1227, R1228, R1229, R1230, R1231, R1232, R1233, R1234, R1235, R1236, R1237, R1238, R1239, R1240, R1241, R1242, R1243, R1244, R1245, R1246, R1247, R1248, R1249, R1250, R1251, R1252, R1253, R1254, R1255, R1256, R1257, R1258, R1259, R1260, R1261, R1262, R1263, R1264, R1265, R1266, R1267, R1268, R1269, R1270, R1271, R1272, R1273, R1274, R1275, R1276, R1277, R1278, R1279, R1280, R1281, R1282, R1283, R1284, R1285, R1286, R1287, R1288, R1289, R1290, R1291, R1292, R1293, R1294, R1295, R1296, R1297, R1298, R1299, R1300, R1301, R1302, R1303, R1304, R1305, R1306, R1307, R1308, R1309, R1310, R1311, R1312, R1313, R1314, R1315, R1316, R1317, R1318, R1319, R1320, R1321, R1322, R1323, R1324, R1325, R1326, R1327, R1328, R1329, R1330, R1331, R1332, R1333, R1334, R1335, R1336, R1337, R1338, R1339, R1340, R1341, R1342, R1343, R1344, R1345, R1346, R1347, R1348, R1349, R1350, R1351, R1352, R1353, R1354, R1355, R1356, R1357, R1358, R1359, R1360, R1361, R1362, R1363, R1364, R1365, R1366, R1367, R1368, R1369, R1370, R1371, R1372, R1373, R1374, R1375, R1376, R1377, R1378, R1379, R1380, R1381, R1382, R1383, R1384, R1385, R1386, R1387, R1388, R1389, R1390, R1391, R1392, R1393, R1394, R1395, R1396, R1397, R1398, R1399, R1400, R1401, R1402, R1403, R1404, R1405, R1406, R1407, R1408, R1409, R1410, R1411, R1412, R1413, R1414, R1415, R1416, R1417, R1418, R1419, R1420, R1421, R1422, R1423, R1424, R1425, R1426, R1427, R1428, R1429, R1430, R1431, R1432, R1433, R1434, R1435, R1436, R1437, R1438, R1439, R1440, R1441, R1442, R1443, R1444, R1445, R1446, R1447, R1448, R1449, R1450, R1451, R1452, R1453, R1454, R1455, R1456, R1457, R1458, R1459, R1460, R1461, R1462, R1463, R1464, R1465, R1466, R1467, R1468, R1469, R1470, R1471, R1472, R1473, R1474, R1475, R1476, R1477, R1478, R1479, R1480, R1481, R1482, R1483, R1484, R1485, R1486, R1487, R1488, R1489, R1490, R1491, R1492, R1493, R1494, R1495, R1496, R1497, R1498, R1499, R1500, R1501, R1502, R1503, R1504, R1505, R1506, R1507, R1508, R1509, R1510, R1511, R1512, R1513, R1514, R1515, R1516, R1517, R1518, R1519, R1520, R1521, R1522, R1523, R1524, R1525, R1526, R1527, R1528, R1529, R1530, R1531, R1532, R1533, R1534, R1535, R1536, R1537, R1538, R1539, R1540, R1541, R1542, R1543, R1544, R1545, R1546, R1547, R1548, R1549, R1550, R1551, R1552, R1553, R1554, R1555, R1556, R1557, R1558, R1559, R1560, R1561, R1562, R1563, R1564, R1565, R1566, R1567, R1568, R1569, R1570, R1571, R1572, R1573, R1574, R1575, R1576, R1577, R1578, R1579, R1580, R1581, R1582, R1583, R1584, R1585, R1586, R1587, R1588, R1589, R1590, R1591, R1592, R1593, R1594, R1595, R1596, R1597, R1598, R1599, R1600, R1601, R1602, R1603, R1604, R1605, R1606, R1607, R1608, R1609, R1610, R1611, R1612, R1613, R1614, R1615, R1616, R1617, R1618, R1619, R1620, R1621, R1622, R1623, R1624, R1625, R1626, R1627, R1628, R1629, R1630, R1631, R1632, R1633, R1634, R1635, R1636, R1637, R1638, R1639, R1640, R1641, R1642, R1643, R1644, R1645, R1646, R1647, R1648, R1649, R1650, R1651, R1652, R1653, R1654, R1655, R1656, R1657, R1658, R1659, R1660, R1661, R1662, R1663, R1664, R1665, R1666, R1667, R1668, R1669, R1670, R1671, R1672, R1673, R1674, R1675, R1676, R1677, R1678, R1679, R1680, R1681, R1682, R1683, R1684, R1685, R1686, R1687, R1688, R1689, R1690, R1691, R1692, R1693, R1694, R1695, R1696, R1697, R1698, R1699, R1700, R1701, R1702, R1703, R1704, R1705, R1706, R1707, R1708, R1709, R1710, R1711, R1712, R1713, R1714, R1715, R1716, R1717, R1718, R1719, R1720

8.DDR&MEMORY&LVDS

PANEL POWER FOR LCD

PANNEL WAFER

FOR BASIC

256M DDR Only one used:IC801

In case of Full-HD-Both of 128M(250MHz) Must be used

IC801

IC802

IC803

IC804

IC805

IC806

IC807

IC808

IC809

IC810

IC811

IC812

IC813

IC814

IC815

IC816

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IC1014

IC1015

IC1016

IC1017

IC1018

IC1019

IC1020

IC1021

IC1022

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IC1024

IC1025

IC1026

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IC1071

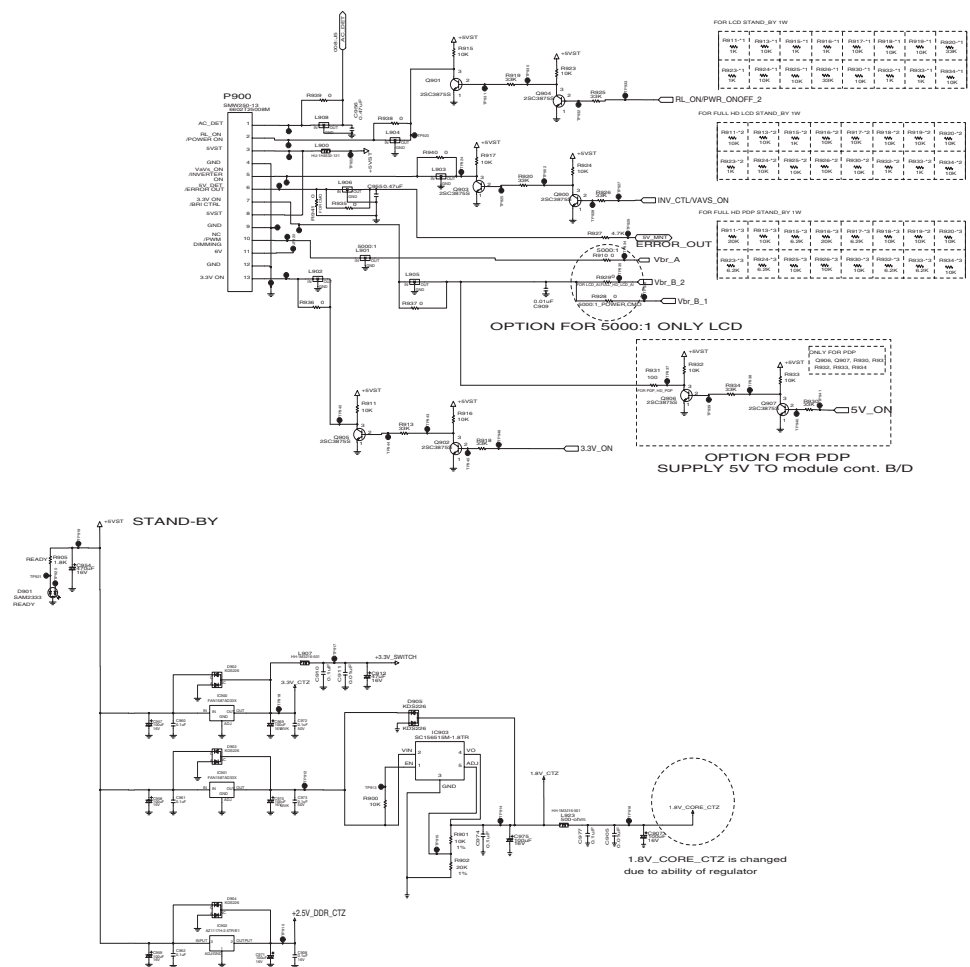
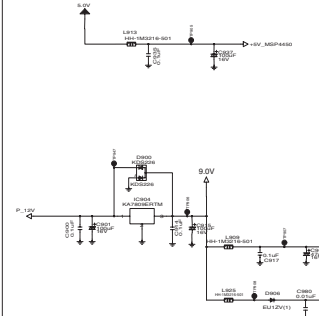
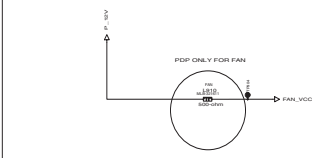
IC1072

The diagram illustrates a DDR termination board, showing various components and their connections. The components are listed in a table at the bottom of the page, organized by value and quantity.

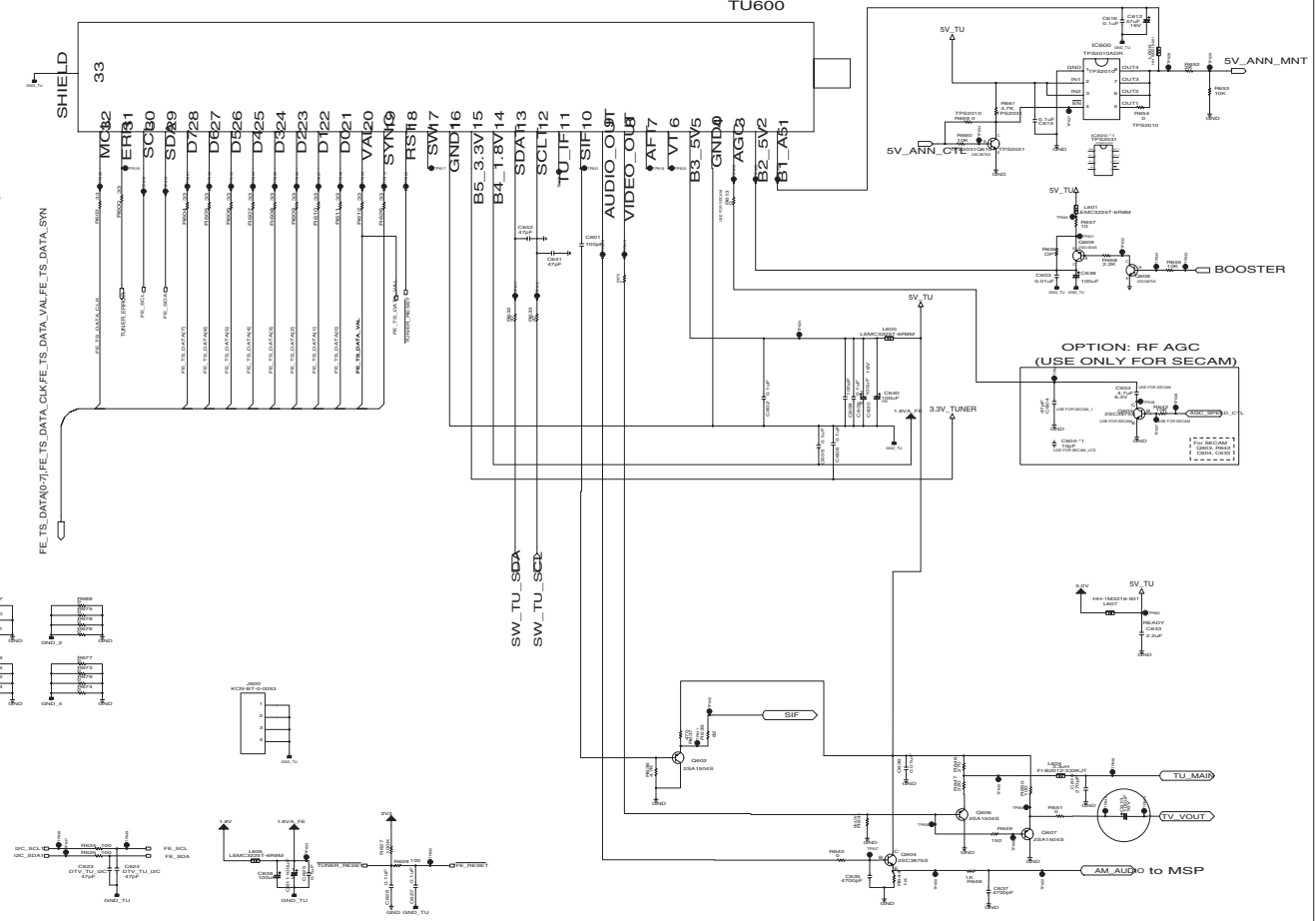
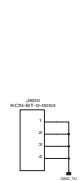
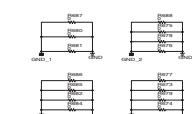
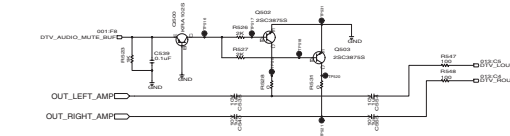
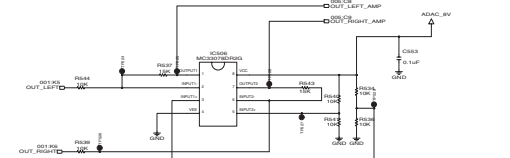
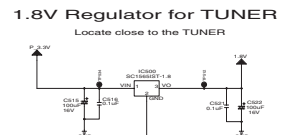
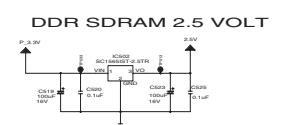
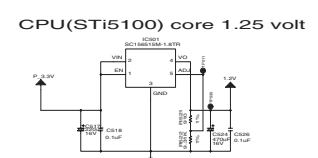
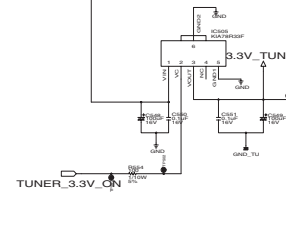
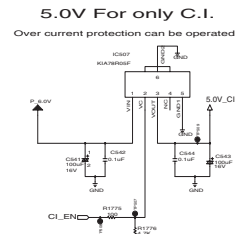
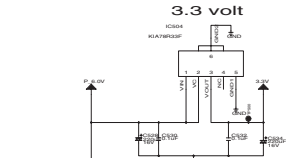
Value	Quantity
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001 C4.000K02	1
001 C4.000K03	1
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001 C4.000K07	1
001 C4.000K08	1
001 C4.000K09	1
001 C4.000K10	1
001 C4.000K11	1
001 C4.000K12	1
001 C4.000K13	1
001 C4.000K14	1
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001 C4.000K22	1
001 C4.000K23	1
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001 C4.000K34	1
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001 C4.000K36	1
001 C4.000K37	1
001 C4.000K38	1
001 C4.000K39	1
001 C4.000K40	1
001 C4.000K41	1
001 C4.000K42	1
001 C4.000K43	1
001 C4.000K44	1
001 C4.000K45	1
001 C4.000K46	1
001 C4.000K47	1
001 C4.000K48	1
001 C4.000K49	1
001 C4.000K50	1
001 C4.000K51	1
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001 C4.000K82	1
001 C4.000K83	1
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001 C4.000K86	1
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001 C4.000K91	1
001 C4.000K92	1
001 C4.000K93	1
001 C4.000K94	1
001 C4.000K95	1
001 C4.000K96	1
001 C4.000K97	1
001 C4.000K98	1
001 C4.000K99	1
001 C4.000K100	1

The image displays 11 detailed circuit diagrams for the RGB232C board, organized into several functional blocks:

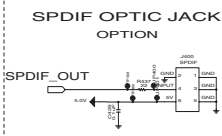
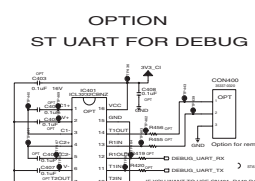
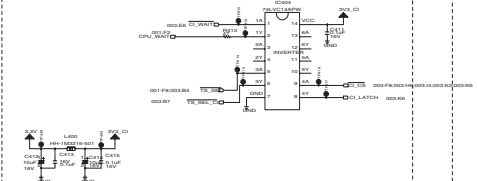
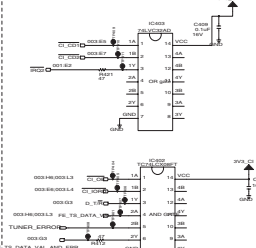
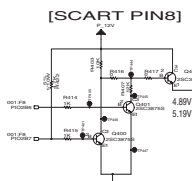
- 11. RGB&232C:** The main board schematic showing the connection of various components like resistors, capacitors, and integrated circuits (ICs) to the board's pins.
- ROM DOWNLOAD FOR PDP:** A specific circuit for downloading data into the PDP's ROM, featuring a P1102 connector and a P1101 IC.
- FOR PDP:** A section dedicated to the PDP (Picture Display Processor) interface, including a P1101 connector and a P1102 IC.
- FOR LCD:** A section for the LCD (Liquid Crystal Display) interface, featuring a P1103 connector and a P1104 IC.
- PC SOUND:** A circuit for connecting the board to a PC's sound system, including a P1101 connector and a P1102 IC.
- PC VIDEO:** A circuit for connecting the board to a PC's video system, including a P1101 connector and a P1102 IC.
- FOR 60" PDP:** A section for a 60-inch PDP, including a P1104 connector and a P1105 IC.
- FOR 60" LCD:** A section for a 60-inch LCD, including a P1104 connector and a P1105 IC.
- FOR 60" PDP:** A section for a 60-inch PDP, including a P1104 connector and a P1105 IC.
- FOR 60" LCD:** A section for a 60-inch LCD, including a P1104 connector and a P1105 IC.
- FOR 60" PDP:** A section for a 60-inch PDP, including a P1104 connector and a P1105 IC.
- FOR 60" LCD:** A section for a 60-inch LCD, including a P1104 connector and a P1105 IC.



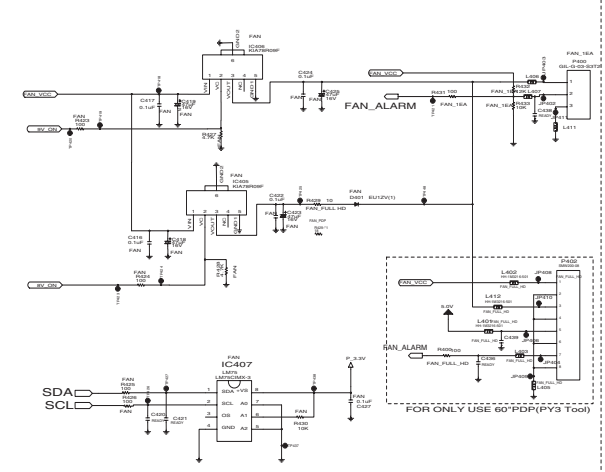
[POWER BLOCK]



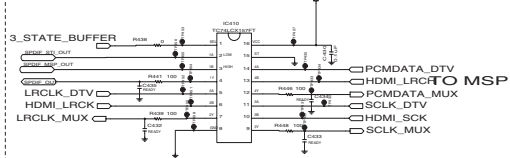
CI OPTIONs(UK)



FAN OPTION

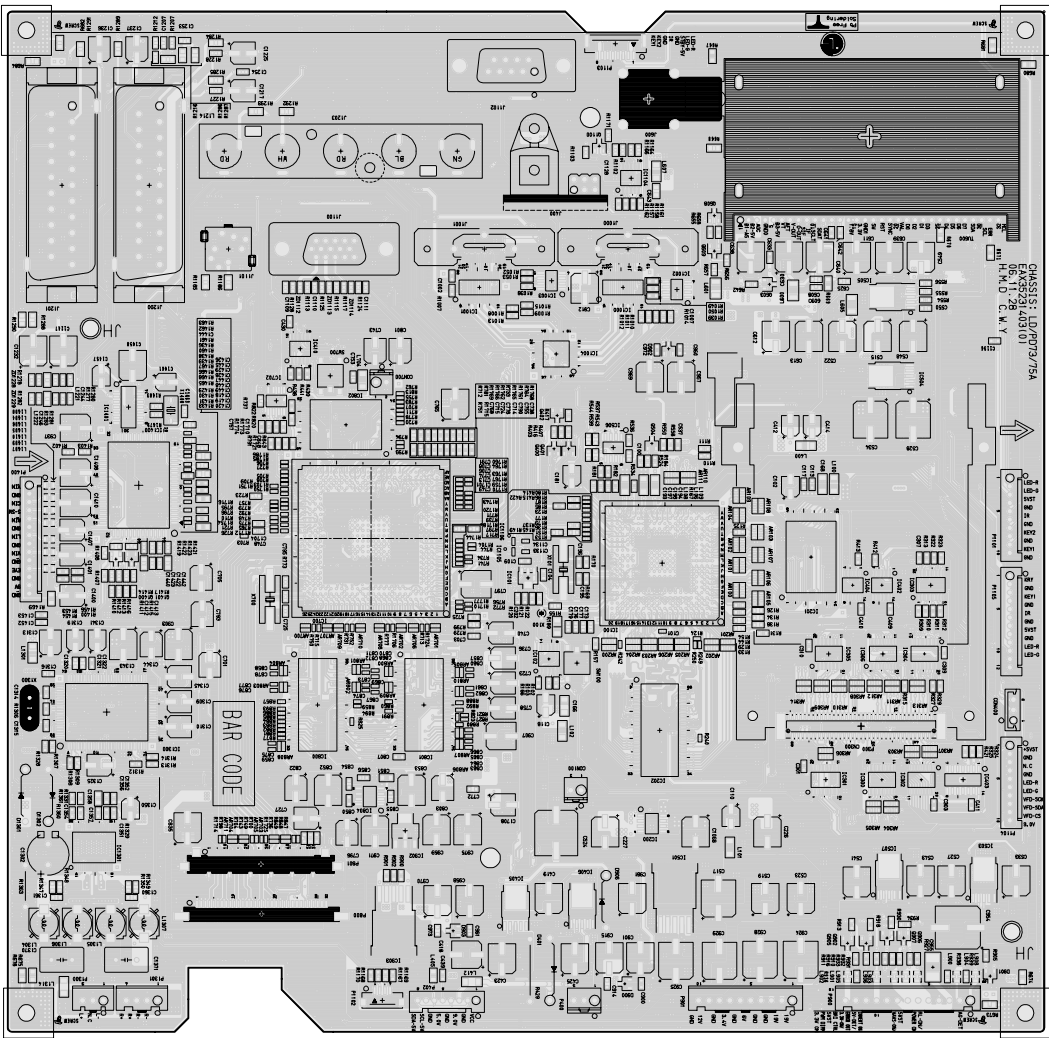


I2S SWITCHING (DTV&HDMI)

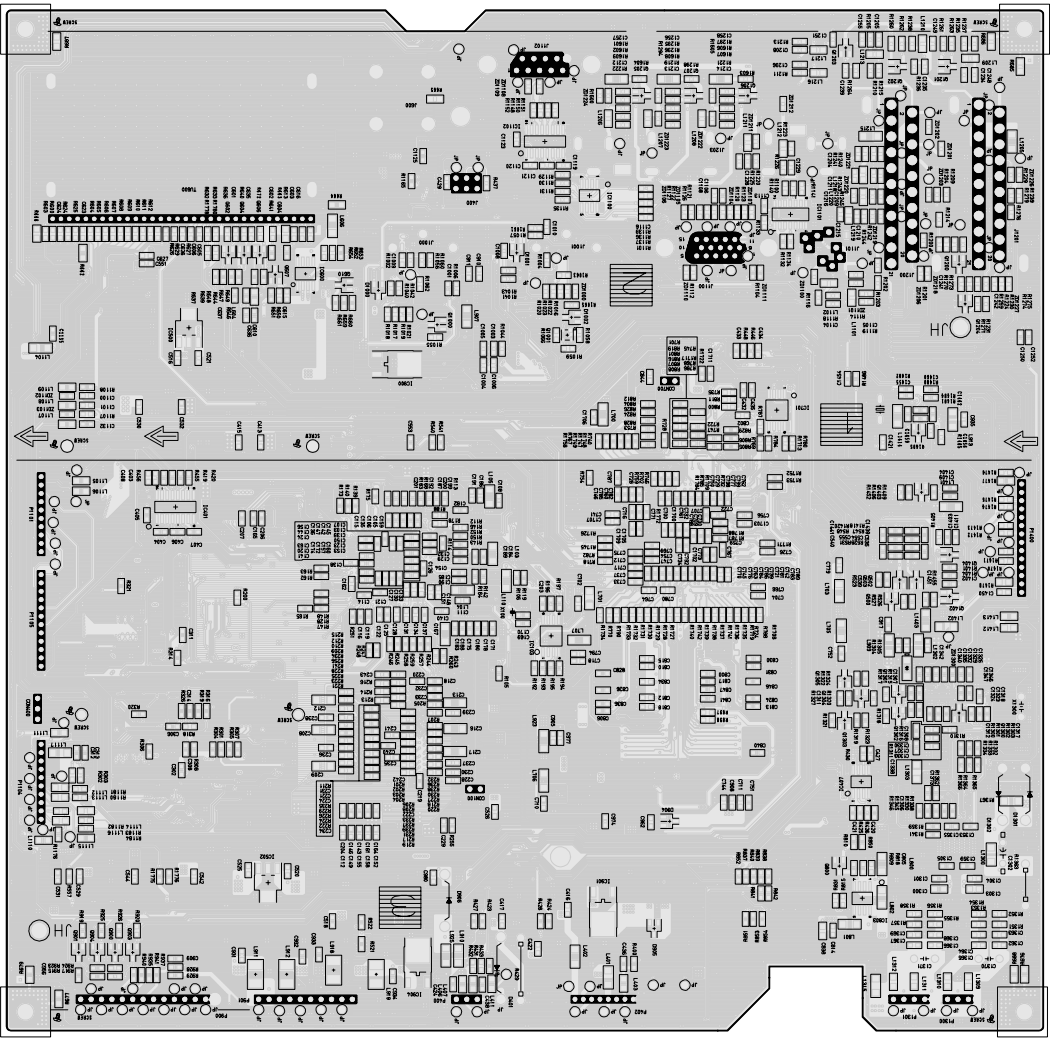


PRINTED CIRCUIT BOARD

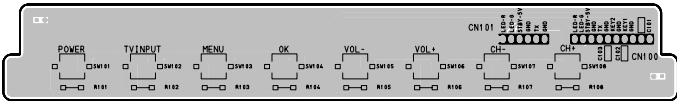
MAIN (TOP)



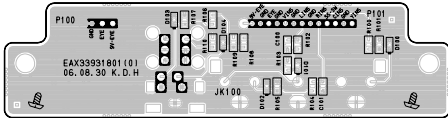
MAIN (BOTTOM)



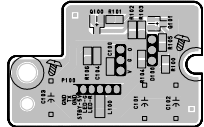
CONTROL B/D



SIDE A/V



IR/LED





P/NO : MFL38562704

May, 2007
Printed in Korea